

APPENDIX 1

CURRENT INDUSTRIAL USERS

SIGNIFICANT INDUSTRIAL USERS 2013
CATEGORICAL INDUSTRIES (10)

✓ Carpenter Technology Corporation - Iron and Steel 101 West Bern Street Reading PA 19601	Mailing Address: P O Box 14662 Reading PA 19612-4662
✓ Crescent Brass Manufacturing-Metal Molding & Casting - Zero Discharge 701 Park Avenue Reading PA 19611	Mailing Address: Same
✓ Hofmann Industries - Metal Finishing 3145 Shillington Road Sinking Spring PA 19608	Mailing Address: Same
✓ Reading Plating and Polishing Works - Electroplating 1833 Cotton Street Reading PA 19606	Mailing Address: 1839 Cotton Street Reading PA 19606
✓ Reading Truck Body - Metal Finishing 201 Hanover Blvd. Reading PA 19611	Mailing Address: Same
✓ Sealed Air Corporation - Pulp and Paper 450 Riverfront Drive Reading PA 19602	Mailing Address: Same
✓ Summit Steel and Manufacturing - Metal Finishing 1005 Patriot Parkway Reading PA 19605	Mailing Address: P O Box 14295 Reading PA 19612
✓ Termaco USA - Metal Finishing 171 Tuckerton Road Reading PA 19605	Mailing Address: Same
✓ United Corrstack - Pulp and Paper 720 Laurel Street Reading PA 19602	Mailing Address: Same
✓ Yuasa Inc - Battery Manufacturing 2901 Montrose Ave Laureldale PA 19605	Mailing Address: Same

SIGNIFICANT INDUSTRIAL USERS 2013
NON-CATEGORICAL INDUSTRIES (26)

✓ Akzo Nobel Coatings 159 Columbia Avenue Reading PA 19601	Mailing Address: Same
✓ Aramark Uniform Services 424 Blair Avenue Reading PA 19601-1910	Mailing Address: Same
✓ Berks Packing Company 307-323 Bingaman Street Reading PA 19602	Mailing Address: P O Box 5919 Reading PA 19610-5919
✓ Car Wash Partners dba Mister Car Wash 1 Cloister Court Sinking Spring PA 19608	Mailing Address: Same
✓ Clover Farms Dairy 3300 Pottsville Pike Reading PA 19605	Mailing Address: P O Box 14627 Reading PA 19612-4627
✓ Crossroads Beverage Group 1055 Crossroads Boulevard Reading, PA 19605	Mailing Address: Same
✓ Cryovac, Inc. Food Packaging Division 177 Tuckerton Road Reading PA 19605-1135	Mailing Address: Same
✓ Dairy Farmers of America 100 McKinley Avenue Reading PA 19605	Mailing Address: Same
✓ Evergreen Community Power 800 South Street Reading PA 19602	Mailing Address: Same

Exide Technologies
Spring Valley Road & Nolan Street
Laureldale PA 19605

Mailing Address:
P O Box 14294
Reading PA 19612-4294

IFS Industries Inc.
400 Orrton Avenue
Reading PA 19611

Mailing Address:
P O Box 1053
Reading PA 19603

Interstate Container LLC.
100 Grace Street
Reading PA 19611

Mailing Address:
Same

Lentz Milling
2045 N 11th Street
Reading PA 19604

Mailing Address:
P O Box 13159
Reading PA 19612

National/Yorgey's Cleaners
1700 Fairview Street
Reading PA 19606

Mailing Address:
Same

Orograin Bakeries
640 Park Avenue
Reading PA 19611

Mailing Address:
Same

Packaging Corporation of America
173 Tuckerton Road
Reading PA 19605

Mailing Address:
Same

Prizer Painter Stove Works
600 Arlington Street
Reading PA 19611

Mailing Address:
P O Box 1053
Reading PA 19603

Quadrant EPP USA, Inc.
2120 Fairmont Avenue
Reading PA 19605

Mailing Address:
P O Box 14235
Reading PA 19612-4235

Quaker Maid Meats
520 & 521 Carroll Street
650 Morgantown Road
Reading PA 19611

Mailing Address:
P O Box 350
Shillington PA 19607-0350

Reading Eagle
345 Penn Street
Reading PA 19601

Mailing Address:
P O Box 582
Reading PA 19603

Reitech Corporation
3146 Marion Street
Laureldale PA 19605

Mailing Address:
Same

Savor Street Foods
51 Spring Valley Road
Reading PA 19605

Mailing Address:
P O Box 15053
Reading PA 19612-5053

St Joseph Medical Center-Downtown
145 N 6th Street
Reading PA 19601

Mailing Address:
P O Box 316
Reading PA 19603

Sun Rich Fresh Foods
425 Gateway Drive
Reading PA 19601

Mailing Address:
Same

Sweet Street Desserts
722 Hiester's Lane
Reading PA 19605

Mailing Address:
P O Box 15127
Reading PA 19612-5127

Tom Sturgis Pretzels
2267 Lancaster Pike
Reading PA 19607

Mailing Address:
Same

2013 NON-SIGNIFICANT INDUSTRIES (12)

Air Liquide
2500 N 11th Street
Reading PA 19605

Mailing Address:
P O Box 13577
Reading PA 19612-3577

Akzo Nobel Coatings Inc-R&D Center
3 Commerce Drive
Reading PA 19607

Mailing Address:
Same

Diesel Service, Inc.
150 Lehigh Street
Reading PA 19601

Mailing Address:
P O Box 14325
Reading PA 19612-4325

NGK Metals Corporation
150 Tuckerton Road
Temple PA 19560

Mailing Address:
917 US Highway 11 South
Sweetwater TN 37874

Paragon Optical
644-658 S 7th Street
Reading PA 19602

Mailing Address:
658 S 7th Street
Reading PA 19602

Pennsylvania Truck Centers
4226 Pottsville Pike
Reading PA 19605

Mailing Address:
P O Box 13337
Reading PA 19612-3337

Penske Truck Leasing
255 Penske Plaza
Reading PA 19602

Mailing Address:
P O Box 7635
Reading PA 19603-7635

Remcon Plastics
208 Chestnut Street
Reading PA 19602

Mailing Address:
Same

Ultra Wash of Philadelphia
1619 N 9th Street
Reading PA 19604

Mailing Address:
P O Box 1130
North Cape May NJ 08204

Unique Pretzel Bakery
215 E. Bellevue Avenue
Reading PA 19605

Mailing Address:
Same

Van Bennett Food Company
101 N Carroll Street
Reading PA 19611

Mailing Address:
Same

WORLD electronics
3000 Kutztown Road
Reading PA 19605

Mailing Address:
Same

APPENDIX 2

COMPLIANCE MONITORING PROGRAM

2013 COMPLIANCE MONITORING PROGRAM

Significant Industrial Users

Industry Name	Control Document		Inspection and Sampling Frequency					
			Inspections		Sampling Visits		Self-Monitoring	
	Issuance Date	Expiration Date	Performed	Proposed	Performed	Proposed	Performed	Required
Akzo Nobel Coatings	April 1, 2012	March 31, 2015	1	1	12	12	12	12
Aramark Uniform Services	July 1, 2013	June 30, 2016	1	1	4	4	12	12
Berks Packing Company	January 1, 2013	December 31, 2015	1	1	4	4	12	12
Carpenter Technology	October 1, 2012	September 30, 2015	1	1	4	4	4	4
Cloister Car Wash and Lube	July 1, 2012	June 30, 2015	1	1	5	4	4	4
Clover Farms Dairy	October 1, 2012	September 30, 2015	1	1	12	12	12	12
Crescent Brass Manufacturing	October 1, 2011	September 30, 2014	1	1	1	1	2	2
Crossroads Beverage	April 1, 2012	March 31, 2015	1	1	2	2	2	2
Cryovac Food Packaging Division	April 1, 2013	March 31, 2016	1	1	2	2	2	2
Dairy Farmers of America	April 1, 2011	March 31, 2014	1	1	12	12	12	12
Evergreen Community Power	October 1, 2011	September 30, 2014	1	1	2	2	2	2
Exide Technologies	January 1, 2012	December 31, 2015	1	1	4	4	4	4
Hofmann Industries	April 1, 2009	March 31, 2012	1	1	2	2	4	4
IFS Industries (International Foundry Supply)	October 1, 2011	September 30, 2014	1	1	12	12	12	12
Interstate Container	October 1, 2013	September 30, 2016	1	1	5	4	4	4
Lentz Milling	July 1, 2013	June 30, 2016	1	1	2	2	4	4
National/Yorgey's Cleaners	January 1, 2012	December 31, 2014	1	1	4	4	2	2
Orograin Bakeries	July 1, 2011	June 30, 2014	1	1	4	4	2	2
Packaging Corporation of America	May 1, 2011	March 31, 2014	1	1	5	4	4	4
Prizer Painter Stove Works	July 1, 2011	June 30, 2014	1	1	5	4	4	4
Quadrant EEP USA	April 1, 2012	March 31, 2015	1	1	1	1	2	2
Quaker Maid Meats	October 1, 2012	September 30, 2015	1	1	4	4	4	4
Reading Eagle Company	January 1, 2012	December 31, 2014	1	1	2	2	2	2
Reading Plating & Polishing Works	July 1, 2011	June 30, 2014	1	1	4	4	4	4
Reading Truck Body	October 1, 2013	September 30, 2016	1	1	4	4	12	12
Reitech Corporation	October 1, 2013	September 30, 2016	1	1	2	2	2	2
Savor Street Foods	January 1, 2012	December 31, 2014	1	1	4	4	4	4
Sealed Air Corporation	January 1, 2013	December 31, 2015	1	1	12	12	90	52
St Joseph Medical Center Downtown	April 1, 2013	March 31, 2016	1	1	6	4	12	12
Summit Steel and Manufacturing	October 1, 2012	September 30, 2015	1	1	1	1	2	2
Sun Rich Fresh Foods	January 1, 2014	December 31, 2016	1	1	12	12	12	12

2013 COMPLIANCE MONITORING PROGRAM

Significant Industrial Users

Industry Name	Control Document		Inspection and Sampling Frequency					
			Inspections		Sampling Visits		Self-Monitoring	
	Issuance Date	Expiration Date	Performed	Proposed	Performed	Proposed	Performed	Required
Sweet Street Desserts	April 1, 2012	March 31, 2015	1	1	4	4	4	4
Termaco USA	July 1, 2011	June 30, 2014	1	1	2	2	4	4
Tom Sturgis Pretzels	January 1, 2012	December 31, 2014	1	1	4	4	4	4
United Corrstack	October 1, 2013	September 30, 2016	1	1	12	12	12	12
Yuasa Battery	April 1, 2009	March 31, 2012	1	1	4	4	4	4
Total			36	36	181	175	290	252

NOTES:

Carpenter Technology: A new permit issued on November 26, 2013 added a fourth outfall. This new outfall, labeled 004, will monitor the new jet cutting machine installed by Carpenter earlier in the year. The outfall will be sampled quarterly at this time.

Clover Farms: The company is building onto its pretreatment system. The new permit, issued July 19, 2013, noted the addition being built and requiring notification when it is put in use. An amended permit reflecting the changes will be issued at that time.

Exide Technologies: The permit issued December 13, 2013 combined the permits for Plant One, Plant Two, and Recycling into one permit. Previously, the facilities was separated into three distinct entities which required three separate permits. The company separated the three entities by having different personnel at all three buildings responsible for pretreatment. Over the last few years, the company has ended manufacturing at the facility and only a few personnel remain working.

Permit Expiration and Extension: Permits are administratively extended as written upon receipt of re-application until new permit issuance.

2013 COMPLIANCE MONITORING PROGRAM

Non-Significant Industrial Users

Industry Name	Control Document		Inspection and Sampling Frequency					
			Inspections		Sampling Visits		Self-Monitoring	
	Issuance Date	Expiration Date	Performed	Proposed	Performed	Proposed	Performed	Required
Air Liquide	July 1, 2012	June 30, 2015	0	0	1	1	2	2
Akzo Nobel Powder Coatings R&D Center	July 1, 2012	June 30, 2015	0	0	1	1	1	1
Diesel Service	October 1, 2011	September 30, 2016	0	0	0	0	1	1
NGK Metals Corporation	April 1, 2012	March 31, 2015	0	0	4	4	2	2
Paragon Optical	January 1, 2010	December 31, 2012	0	0	2	4	0	2
Pennsylvania Truck Centers	October 1, 2011	September 30, 2014	0	0	2	2	2	2
Penske Truck Leasing	January 1, 2012	December 31, 2014	0	0	4	4	4	4
Remcon Plastics	April 1, 2011	March 31, 2014	0	0	1	1	1	1
Ultra Wash of Philadelphia	April 1, 2013	March 31, 2016	0	0	0	0	4	4
Unique Pretzel Bakery	October 1, 2012	September 30, 2015	0	0	2	2	2	2
Van Bennett Food Company	October 1, 2012	September 30, 2015	0	0	3	2	4	4
WORLD electronics	January 1, 2014	December 31, 2016	0	0	2	2	2	2
Total			0	0	22	23	25	27

NOTES:

Paragon Optical: The company's permit expired December 31, 2012. The City received a permit application in December 2012 that was not complete. It also did not include any of the testing required for a permit renewal. Since receipt of the application, phone calls went unreturned. All mail was returned as undeliverable. The company filed for bankruptcy protection in May 2013. The permit has not been, nor is it expected to be, renewed.

Unique Pretzels: The company added a holding tank inside the building for its wastewater. Wastewater is discharged into the tank where the pH is adjusted to the permitted range if necessary. Wastewater samples are to be taken directly out of this tank. The new permit, issued April 30, 2013, reflects this change.

Permit Expiration and Extension: Permits are administratively extended as written upon receipt of re-application until new permit issuance.

APPENDIX 3

INCREASED INDUSTRIAL SAMPLING

INCREASED INDUSTRIAL SAMPLING FOR 2013

INDUSTRY (SIU)	Additional City Sampling Performed	Parameters Tested	Number of Extra Tests	Additional Self Monitoring Sampling Performed	Parameters Tested	Number of Extra Tests
Akzo Nobel Coatings						
Aramark Uniform Services						
Berks Packing Company						
Carpenter Technology	1	chromium	1	1	chromium	1
Cloister Car Wash and Lube	3	copper	3			
	3	zinc	3			
Clover Farms Dairy				6	oil and grease (HEM)	6
				1	pH	1
Crescent Brass Manufacturing	3	copper	3	2	copper	2
Crossroads Beverage Group						
Cryovac Food Packaging Division						
Dairy Farmers of America						
Evergreen Community Power						
Exide Technologies						
Hofmann Industries	4	zinc	4	8	zinc	8
IFS Industries				2	oil and grease	2
Interstate Container	11	color	11	2	color	2
	3	zinc	3	1	zinc	1
Lentz Milling						
National/Yorgey's Cleaners	4	oil and grease (HEM)	4			
	4	oil and grease (SGT-HEM)	4			
Orograin Bakeries outfall 001						
Orograin Bakeries outfall 002	4	lead	4			
	9	oil and grease (HEM)	9	4	oil and grease (HEM)	4
	9	pH	9			
	4	zinc	4			
Packaging Corp. of America						
Prizer Painter Stove Works						
Quadrant EPP USA						
Quaker Maid Meats outfall 003						
outfall 004						
Reading Eagle Company						
Reading Plating & Polishing Works	4	oil and grease (HEM)	4	4	oil and grease (HEM)	4
	4	oil and grease (SGT-HEM)	4	3	oil and grease (SGT-HEM)	3

INCREASED INDUSTRIAL SAMPLING FOR 2013

INDUSTRY (SIU)	Additional City Sampling Performed	Parameters Tested	Number of Extra Tests	Additional Self Monitoring Sampling Performed	Parameters Tested	Number of Extra Tests
Reading Truck Body						
Reitech Corporation						
Savor Street Foods Inc						
Sealed Air Corporation						
St Joseph Downtown-outfall 005						
St Joseph Downtown-outfall 006	1	copper	1			
	3	mercury	3			
	1	zinc	1			
Summit Steel and Manufacturing						
Sun Rich Fresh Foods						
Sweet Street Desserts				1	pH	1
Termaco USA						
Tom Sturgis Pretzels	3	oil and grease (HEM)	3	1	pH	1
United Corrstack				1	mercury	1
Yuasa Battery						

NOTES:

- Aramark Uniform Services** A new permit was issued effective July 1. No changes were made.
- Berks Packing Company** A permit, effective January 1, was written. The permit required the company to continue to take monthly oil and grease samples. The permit also continued the requirement that, in case of an oil and grease violation, two resamples must be taken within 30 days of the original violation.
- Carpenter Technology Corporation** A new permit, effective December 1, was issued. The new permit calculated new categorical limits for outfall 001. No changes were made regarding sampling or limits on outfalls 002 or 003. A new outfall was added, labelled outfall 004. This new outfall will sample the discharge from a new jet water cutter installed recently by Carpenter.
- Car Wash Partners dba Mr Car Wash** A new permit was issued effective July 1. No changes were made to sampling requirements. The company sale was finalized during the year. Subsequently, the name was changed from Cloister Car Wash to Car Wash Partners dba Mister Car Wash.
- Clover Farms Dairy** A new permit was issued effective October 1. It was noted that the company is building additions to its pretreatment facilities in order to better control pH and oil and grease. The company is required to notify the City when construction is completed. An amended permit which will describe the new treatment process and sampling point will be issued at that time.

INCREASED INDUSTRIAL SAMPLING FOR 2013

INDUSTRY (SIU)	Additional City Sampling Performed	Parameters Tested	Number of Extra Tests	Additional Self Monitoring Sampling Performed	Parameters Tested	Number of Extra Tests
----------------	---	----------------------	-----------------------------	--	----------------------	-----------------------------

Cryovac Food Packaging Division

A new permit was issued effective April 1. No changes were made.

Exide Corporation

A new permit was issued. Previously, this industry had been three separate entities under one corporate umbrells. Because the three entities had different personnel groups in charge of pretreatment and were semi autonomous in that respect, a different permit was issued for each entity. The company has been downsizing in recent years and two of the three parts of this company are not working at this time. Therefore, all three parts were combined into one overarching permit effective January 1, 2012 which was the date their existing permits expired. No changes were made to either sampling or reporting requirements. The possibility exists that the company, or another company, would some day reopen all or part of the business. The permit stipulates that the City shall be notified 90 days in advance of the reopening, should that ever occur.

Interstate Container

A new permit effective October 1 was issued. No changes were made.

Lentz Milling

A new permit was issued, effective July 1. The requirement for quarterly sampling for pH and oil and grease remains unchanged. The permit was change to have all other parameters sampled and tested for every year in April as opposed to every other year as in previous permits.

Quadrant EPP USA Inc

A new permit, effective April 1, 2012 was issued. No changes were made.

Quaker Maid Meats, Inc

A permit was written, effective October 1. No changes were made to this permit.

Reading Truck Body

A new permit was issued which went into effect October 1. Although the company is a categorical industry, no dilution occurs at or near the outfall so the combined wastestream formula is not used to determine new daily or monthly categorical limits.

Reitech Corporation

A new permit was issued which went into effect October 1. No changes were made.

St. Joseph Medical Center Downtown

A new permit was issued effective April 1. The requirement to sample and test outfall 005 monthly for oil and grease was not changed. The company had requested changing this requirement to quarterly sampling. No other changes were made.

Sealed Air Corporation

A new permit was issued effective January 1. The limits on penta and trichlorophenol were changed based on data supplied by the company. No other changes were made.

Sun Rich Foods

A new permit was issued with an effective date of January 1, 2014. No changes were made.

INCREASED INDUSTRIAL SAMPLING FOR 2013

INDUSTRY (SIU)	Additional City Sampling Performed	Parameters Tested	Number of Extra Tests	Additional Self Monitoring Sampling Performed	Parameters Tested	Number of Extra Tests
----------------	---	----------------------	-----------------------------	--	----------------------	-----------------------------

Sweet Street Desserts

A new permit, effective April 1, was issued. No changes were made to the sampling requirements. It was noted that the company no longer dewater sludge on site.

United Corrstack

A permit, effective October 1, was issued. New categorical limits on trichlorophenol and pentachlorophenol were issued based upon information supplied by United Corrstack in their self monitoring reports.

INCREASED INDUSTRIAL SAMPLING FOR 2013

INDUSTRY (non-SIU)	Additional City Sampling Performed	Parameters Tested	Number of Extra Tests	Additional Self Monitoring Sampling Performed	Parameters Tested	Number of Extra Tests
Air Liquide						
Akzo Nobel Coatings R&D Lab	3	copper	3			
Diesel Service						
NGK Metals Corporation						
Paragon Optical						
Pennsylvania Truck Centers						
Penske Truck Leasing						
Remcon Plastics	3	copper	3			
	3	zinc	3			
Ultra Wash of Philadelphia						
Unique Pretzel Bakery						
Van Bennett Food Company	2	oil and grease (HEM)	2			
	2	pH	2			
WORLD electronics						

NOTES:

Akzo Nobel R&D Center

A new permit was issued effective July 1 was issued. No changes were made to sampling requirements. The company name was changed from Rohm & Haas to Akzo Nobel due to the company's sale being finalized during 2013.

Ultra Wash Philadelphia

A new permit, effective April 1, was issued for this industry. No changes were made.

Unique Pretzel Bakery

A new permit was issued, effective October 1, for this industry. The wastewater sampling point was changed to reflect work the company had done to take samples out of a tank inside the building. This work was done to improve the company's ability to control the pH of its discharge. The permit was written so that the company was required to do biannual wastewater testing in the first half of 2014 and 2015.

WORLD electronics

A new permit was issued. The effective date of the permit was January 1, 2014. No changes were made.

APPENDIX 4

FACILITIES IN SNC FOR 2013 THAT WERE ALSO IN SNC FOR 2012

Significant Industrial Users in SNC for 2013 that were also in SNC for 2012

<u>Facility</u>	<u>Reason for Significant Non-Compliance</u>		<u>Status at the end of 2013</u>
	<u>2012</u>	<u>2013</u>	
Hofmann Industries	TRC zinc	TRC zinc TRC & chronic average monthly zinc	Compliance
Interstate Container LLC	TRC Color & Failure to report	TRC & chronic color	Compliance

Non Significant Industrial Users in SNC for 2013 that were also in SNC for 2012

<u>Facility</u>	<u>Reason for Significant Non-Compliance</u>		<u>Status at the end of 2013</u>
	<u>2012</u>	<u>2013</u>	
Paragon Optical Company	Failure to report	TRC copper, lead, zinc Failure to report	SNC
Penske Truck Leasing	TRC zinc	TRC zinc	Compliance

APPENDIX 5

NEWSPAPER LISTING OF SIGNIFICANT VIOLATORS



JOIN THE FUN

Reading Eagle
**SUBSCRIBER
LOYALTY**
event

**SUBSCRIBE
TODAY!**

610-371-5122
readingeagle.com

Preserving memories

Having your name or picture in the newspaper is definitely worth keeping.

There's no need to clip an article or photo that only will turn brittle and yellow with age.

Reading Eagle Company reproductions preserve the memories of a special story spotlighting yourself, your business, your organization, sports event or your child's moment of fame.

To order reproductions of *Reading Eagle* pages in color and black & white, contact Pam Kerr at 610-371-5034.

READING EAGLE



Photo in the Post
Mark G. Hoch
M

Storms herald another
Raining azzalone

life takes flight

Money
Salon of a different color

[illegible]

PUBLIC NOTICE

As a requirement of the City of Reading's National Pollutant Discharge Elimination System (NPDES) Permit number PA0026549, the City is required to operate an industrial pretreatment program in accordance with the Clean Water Act and the General Pretreatment Regulations (40 CFR 403).

Part 40 CFR 403.8 (f) (2) (viii) of the General Regulations as well as Section 9 of the City of Reading's Sewer Use Ordinance 17-98, requires annual publication of a list of all industrial users which were in significant non-compliance (SNC) at any time during the previous twelve (12) months.

The list of significant industrial users found to be in significant non-compliance during the previous twelve months starting January 1, 2013 to December 31, 2013 along with their current compliance status is as follows:

Carpenter Technology Corporation
101 West Bern Street
Reading, PA 19601
City of Reading Industrial Waste Permit No. 76D

Nature of violation:

3rd Quarter -TRC and chronic violation of the chromium limit listed in its permit

3rd Quarter - Failure to report violation

3rd Quarter - Failure to resample

Current compliance status:

During normal self monitoring sampling in August, the company had a chromium test which was in violation of its permit limit. The company reported the violation prior to filing its third quarter self monitoring report, but several weeks after the sample had been taken and the results of the test available to company personnel. The company also failed to resample as written in its permit. Through extra sampling by both the company and the City, the company returned to compliance.

Crescent Brass Manufacturing Company
701 Park Avenue
Reading, PA 19611
City of Reading Industrial Waste Permit No. 73G

Nature of violation:

2nd Quarter - TRC and chronic violation of the copper limit in its permit and failure to report violation

3rd Quarter - TRC violation of the copper limit in its permit

Current compliance status:

The company reported a copper violation on a sample taken in May. The violation was reported on the company's second quarter self monitoring report. Another copper sample was taken within the 30 day time period for resampling as is written in the company's permit. This sample was also in violation of the copper permit limits. A third sample was taken, the results of which were within permit limits. No explanation was given for the high copper in any of the samples. The City took extra samples in the third quarter, but the company remained in SNC at that time due to a violation in September. As of the fourth quarter of 2013 the company has returned to compliance.

Hofmann Industries, Inc.
3145 Shillington Road
Sinking Spring PA 19608
City of Reading Industrial Waste Permit No. 18G
Nature of violation:

1st Quarter - TRC violation of the zinc limit listed in its permit

1st Quarter - TRC and Chronic violation of the maximum monthly average limit for zinc listed in its Permit

Current compliance status:

This is a categorical industrial user and therefore has a maximum monthly average limit for a number of parameters including zinc. There is a pretreatment system in operation. The company reported a leak in a caustic tank was the cause of violations in October and November 2012. However, there was an additional violation in January 2013. Extra sampling was done in March by both the company and the City, which yielded some more violations. Subsequent testing through the year produced no further violations and the company has returned to compliance.

Interstate Container LLC

100 Grace Street

Reading, PA 19611

City of Reading Industrial Waste Permit No. 20H

Nature of violation:

3rd Quarter - TRC and chronic violation of the color level listed in its permit

Current compliance status:

There were two Self Monitoring test results and 5 City color test results out of fourteen total color samples taken during the third quarter in violation of the company's permit limits. The company indicated that a recirculating valve was removed from their discharge pipe during the time they were getting their filter press repiped. Company personnel state that the bypass was necessary because the discharge is a batch discharge and sediment remains in the filter press screens after the screens have been cleaned between pressings. Water is recirculated back into the treatment tank for the first minute or so of any batch discharge. The valve was replaced. The company had some color violations in the ensuing months but much fewer than prior to the valve being replaced. The company has returned to compliance.

Orograin Manufacturing Bakeries

640 Park Avenue

Reading PA 19611

City of Reading Industrial Waste Permit No. 16G

Nature of violation:

1st Quarter - TRC violation of the oil and grease limit listed in its permit

TRC and chronic violation of the lead level listed in its permit

Failure to resample

Failure to report violation

Current compliance status:

During a test in January 2013 done by the City, there was a lead violation. The company believes that an outside contractor who had been cleaning and servicing and changing batteries on their tow motors may have caused some lead from the batteries to be on the floor and the lead was washed into a nearby sump pit which discharges to the outfall with the violation by company personnel. Changes were made to the battery changing and floor washing routines to try to prevent this occurrence from happening again. Also, the company had an oil and grease (HEM) violation on a self monitoring sample taken in February. This violation was only reported to the City when the company's first quarter self monitoring report was submitted in April, not within 24 hours of learning of the violation as required in the industrial wastewater permit. Additionally, the company did not take an oil and grease resample as required in their permit. Company and City representative met to explain the violations and try to come up with ways to avoid future violations. The company has not had any other violations and has returned to compliance.

Quaker Maid Meats, Inc
511 Carroll Street
Reading, PA 19607
City of Reading Industrial Waste Permit No. 77E
Nature of violation:

4th Quarter - TRC violation of the oil and grease (HEM) listed in its permit

Current compliance status:

During normal self monitoring testing in October, the company had an oil and grease violation. A retest a week later also showed a violation. A second retest taken three weeks later had a result that was below the permit limit. The second high result placed the company in SNC for the fourth quarter. A company representative e mailed that the company had begun to clean its fryers on a more frequent basis and he believed that was the reason for the violations. The company increased the rate at which their oil separators are pumped out and had a good test result subsequent to the increased pumping schedule. Nevertheless, the company remained in SNC as of the end of 2013.

Reading Plating and Polishing Works, Inc.
1839 Cotton Street
Reading, PA 19606
City of Reading Industrial Waste Permit No. 10H
Nature of violation:

3rd Quarter - TRC violation of the oil and grease (SGT-HEM) level listed in its permit

Current compliance status:

The company had two oil and grease (SGT-HEM) violations; one in August and the other in September. Neither company nor City personnel have been able to find a reasonable explanation for these violations. Both the company and the City took extra samples. There were no additional violations. The company has returned to compliance.

St. Joseph Medical Center-Downtown
145 North 6th Street
Reading, PA 19601
City of Reading Industrial Waste Permit No. 65G
Nature of violation:

2nd Quarter - TRC and chronic violations of the mercury level listed in its permit

3rd Quarter - TRC and chronic violations of the mercury level listed in its permit

Current compliance status:

A mercury sample was taken in May during normal City testing. This test showed a violation for mercury. Two additional samples were taken in June by the City. Both of these results were also in violation. The company has a device that is supposed to filter out fillings from the dental clinic which is probably the source for mercury at this outfall. The filter was changed and the device cleaned and serviced after these violations. A sample taken in September showed results below the permit limit. As this sample was the only sample taken after June, the company returned to compliance in the fourth quarter of 2013.

The list of non-significant industrial users found to be in significant non-compliance during the previous twelve months starting January 1, 2013 to December 31, 2013 along with their current compliance status is as follows:

Paragon Optical Company Inc.
644-658 South 7th Street
Reading PA 19602

City of Reading Industrial Waste Permit No. M020C

Nature of violations:

2nd Quarter - TRC violation of copper, lead, and zinc levels listed in its permit

3rd Quarter - TRC violation of copper, lead, and zinc levels listed in its permit

All Quarters-Failure to report

Current compliance status:

The company has not submitted a self monitoring report since the second quarter of 2012. Tests taken by the City in April showed violations of copper, lead, and zinc. No subsequent tests were taken.

Phone calls and unannounced site visits were unanswered. All bills and other correspondence sent since the second quarter of 2013 have been returned as undeliverable. Water to the company was shut off by the Reading Area Water Authority in 2013. In May 2013, the company filed for bankruptcy protection.

Van Bennett Food Company, Inc

101 North Carroll Street

Reading, PA 19611

City of Reading Industrial Waste Permit No. M030E

Nature of violation:

1st Quarter - Failure to resample

Current compliance status:

The company reported a pH and oil and grease (HEM) violation on their 1st quarter self monitoring report. The report was filed in a timely manner, however, the company did not resample either of the parameters as required on their permit. The company began separating high oil and grease waste in containers and having it shipped out rather than washing it down drains. There was an oil and grease violation in June, but the company has returned to compliance.

If any additional information is required, please contact Deborah A.S. Hoag, PE, Utilities Division Manager, or Jeffrey P. Hill, Environmental Program Coordinator, at 610-655-6121.

APPENDIX 6

ENFORCEMENT ACTIONS

2013 ENFORCEMENT ACTIONS

Significant Industrial Users

Industry Name	Enforcement Action				Nature of Violation
	Compliance Schedule	Notice of Violation	Admin Order	Penalty Assessed	
Akzo Nobel Coatings	None	2	None	\$200	2 zinc
Aramark Uniform Services	None	1	None	\$100	1 pH
Berks Packing Company	None	None	None		
Carpenter Technology	None	3	None	\$1,600	1 chromium, 1 failure to report violation, 1 failure to resample
Cloister Car Wash and Lube	None	2	None	\$600	1 copper, 1 zinc
Clover Farms Dairy	None	31		\$68,950	9 pH, 17 oil and grease, 4 late reports, 1 failure to report violations
Crescent Brass Manufacturing	None	5	None	\$2,300	3 Cu, 2 failure to report violations
Crossroads Beverage	None	None	None		
Cryovac Food Packaging	None	None	None		
Dairy Farmers of America	None	2	None	\$8,000	2 oil and grease
Evergreen Community Power	None	None	None		
Exide Technologies	None	None	None		
Hofmann Industries	None	7	None	\$700	5 zinc, 2 zinc monthly average
IFS Industries	None	5	None	\$12,050	4 oil and grease, 1 late report
Interstate Container	None	9	None	\$900	8 color, 1 zinc
Lentz Milling	None	1	None	\$250	Late sampling
National/Yorgey's Cleaners	None	4	None	\$400	2 oil and grease (HEM), 2 oil and grease (SGT-HEM)
Orograin Bakeries	None	12	None	\$2,450	4 pH, 1 lead, 1 zinc 1 late report, 3 oil and grease, 1 failure to resample,
					1 failure to report
Packaging Corp. of America	None	None	None		
Prizer Painter Stove Works	None	1	None	\$50	1 late report
Quadrant EEP USA	None	None	None		
Quaker Maid Meats	None	3	None	\$300	1pH, 2 oil and grease (HEM)
Reading Eagle Company	None	None	None		
Reading Plating & Polishing	None	2	None	\$200	2 oil and grease (SGT-HEM)
Reading Truck Body	None	2	None	\$200	1 zinc, 1 pH
Reitech Corporation	None	None	None		
Savor Street Foods	None	2	None	\$150	1 late report, 1 oil and grease (HEM)
Sealed Air Corporation	None	None	None		
St Joseph Downtown	None	3	None	\$300	3 mercury
Summit Steel and Manufacturing	None	None	None		
Sun Rich Fresh Foods	None	None	None		
Sweet Street Desserts	None	3	None	\$1,200	2 pH, 1 failure to report violation
Termaco USA	None	None	None		

2013 ENFORCEMENT ACTIONS

Significant Industrial Users

Industry Name	Enforcement Action				Nature of Violation
	Compliance Schedule	Notice of Violation	Admin Order	Penalty Assessed	
Tom Sturgis Pretzels	None	4	None	\$400	3 oil and grease, 1 pH
United Corrstack	None	2	None	\$200	1 mercury, 1 oil and grease (SGT-HEM)
Yuasa Battery	None	1	None	\$100	1 lead-monthly average
TOTAL	0	107		\$101,600	

Initial fines for violations are as follows:

Failure to Report	\$1,000
Failure to Resample	\$500
Permit Limit violation	\$100
Late report	\$50
Late sampling/resampling	\$250
Failure to Report Violations	\$1,000
Failure to Report Monitoring Data	\$1,000
Failure to maintain pretreatment records/documents on site	\$500

NOTES ON FINES ADMINISTERED:

Clover Farms Dairy: pH violations were fined at \$250. 9 were fined at this rate. Oil and grease was fined at \$3500 in the first quarter. 5 were fined at this rate. Oil and grease fine was raised to \$4000 in the second quarter. 12 were fined at this rate.

2013 ENFORCEMENT ACTIONS
Non-Significant Industrial Users

Industry Name	Enforcement Action				Nature of Violation
	Compliance Schedule	Notice of Violation	Admin Order	Penalty Assessed	
Air Liquide	None	None	None		
Akzo Nobel Coatings Inc-R&D Lab	None	1	None	\$100	1 copper
Diesel Service	None	None	None		
NGK Metals Corporation	None	None	None		
Paragon Optical	None	4	None	\$1,300	1 copper, 1 lead, 1 zinc, 1 failure to report
Pennsylvania Truck Centers	None	None	None		
Penske Truck Leasing	None	None	None		
Remcon Plastics	None	3	None	\$300	1 copper, 2 zinc
Ultra Wash of Philadelphia	None	1	None	\$50	1 late report
Unique Pretzel Bakery	None	None	None		
Van Bennett Food Company	None	8	None	\$1,450	1 pH, 2 oil and grease, 3 late reports, 2 failures to resample
WORLD electronics	None	None	None		
TOTAL	0	17	0	\$3,200	

Initial fines for violations are as follows:

Failure to Report	\$1,000
Failure to Resample	\$500
Permit Limit violation	\$100
Late report	\$50
Late sampling/resampling	\$250
Failure to Report Violations	\$1,000
Failure to Report Monitoring Data	\$1,000

APPENDIX 7

PAYMENT STATUS

**City of Reading Industrial Pretreatment
Penalty Payment Status
Industrial Waste Register Bill Summary**

1/1/2013 to 3/27/2014

<u>License No.</u>	<u>Name</u>	<u>Issue Date</u>	<u>Comments</u>	<u>Billed</u>	<u>Paid</u>	<u>PaidDate</u>
January 2013						
FINES - 54-07-00-3622						
337759	AIR LIQUIDE	01/09/2013	3RD Q 2012	\$100.00	-\$100.00	01/24/2013
337760	BACHMAN COMPANY	01/09/2013	2012-3RD Q	\$100.00	-\$100.00	02/06/2013
364195	BIMBO BAKERIES USA, INC.	01/09/2013	2012-3RD Q	\$100.00	-\$100.00	02/14/2013
341901	CLOISTER CAR WASH AND LUBE	01/09/2013	2012-3RD Q	\$600.00	-\$600.00	01/31/2013
331117	CLOVER FARMS DAIRY	01/09/2013	2012-3RD Q	\$28,250.00	-\$28,250.00	02/14/2013
337763	CRESCENT BRASS MANUFACTURING	01/23/2013		\$265.05	-\$265.05	01/24/2013
331628	INTERSTATE CONTAINER READING	01/09/2013	2012-3RD Q	\$200.00	-\$200.00	03/28/2013
331094	QUAKER MAID MEATS	01/09/2013	2012-3RD Q	\$100.00	-\$100.00	02/28/2013
340271	READING TRUCK BODY LLC	01/09/2013	2012-3RD Q	\$50.00	-\$50.00	02/05/2013
337710	YUASA BATTERY INC	01/09/2013	2012-3RD Q	\$1,100.00	-\$1,100.00	01/31/2013
				\$30,865.05	-\$30,865.05	
February 2013						
FINES - 54-07-00-3622						
337763	CRESCENT BRASS MANUFACTURING	02/07/2013		\$265.05	-\$265.05	02/14/2013
				\$265.05	-\$265.05	
April 2013						
FINES - 54-07-00-3622						
337763	CRESCENT BRASS MANUFACTURING	04/19/2013		\$265.05	-\$265.05	04/30/2013
337763	CRESCENT BRASS MANUFACTURING	04/19/2013		\$265.05	-\$265.05	04/30/2013
				\$530.10	-\$530.10	
May 2013						
FINES - 54-07-00-3622						
365365	AKZO NOBEL COATINGS	05/30/2013	2013-1ST Q	\$200.00	-\$200.00	07/15/2013
331155	ARAMARK UNIFORM SERVICES	05/01/2013	2012-4TH Q	\$100.00	-\$100.00	05/31/2013
331155	ARAMARK UNIFORM SERVICES	05/30/2013	2013-1ST Q	\$100.00	-\$100.00	06/28/2013

337760	BACHMAN COMPANY	05/01/2013	2012-4TH Q	\$100.00	-\$100.00	05/31/2013
331620	BERKS PACKING	05/01/2013	2012-4TH Q	\$200.00	-\$200.00	05/16/2013
364195	BIMBO BAKERIES USA, INC.	05/30/2013	2013-1ST Q	\$1,950.00	-\$1,950.00	07/12/2013
341901	CLOISTER CAR WASH AND LUBE	05/01/2013	2012-4TH Q	\$500.00	-\$500.00	05/31/2013
331117	CLOVER FARMS DAIRY	05/01/2013	2012-4TH Q	\$15,500.00	-\$15,500.00	05/21/2013
331117	CLOVER FARMS DAIRY	05/30/2013	2013-1ST Q	\$18,700.00	-\$18,700.00	06/25/2013
365363	DAIRY FARMERS OF AMERICA	05/01/2013	2012-4TH Q	\$4,200.00	-\$4,200.00	05/31/2013
338910	HOFMANN INDUSTRIES	05/01/2013	2012-4TH Q	\$300.00	-\$300.00	06/14/2013
338910	HOFMANN INDUSTRIES	05/30/2013	2013-1ST Q	\$700.00	-\$700.00	07/15/2013
331089	IFS INDUSTRIES	05/01/2013	2012-4TH Q	\$3,000.00	-\$3,000.00	05/23/2013
331089	IFS INDUSTRIES	05/30/2013	2013-1ST Q	\$3,000.00	-\$3,000.00	06/19/2013
366313	PACKAGING CORP OF AMERICA	05/01/2013	2012-4TH Q	\$50.00	-\$50.00	05/31/2013
337731	PARAGON OPTICAL	05/01/2013	2012-4TH Q	\$2,000.00	\$0.00	#####
331154	PENSKE TRUCK LEASING	05/01/2013	2012-4TH Q	\$100.00	-\$100.00	05/31/2013
331621	PRIZER PAINTER STOVE WORKS	05/01/2013	2012-4TH Q	\$150.00	-\$150.00	06/11/2013
331094	QUAKER MAID MEATS	05/30/2013	2013-1ST Q	\$100.00	-\$100.00	06/28/2013
340271	READING TRUCK BODY LLC	05/30/2013	2013-1ST Q	\$100.00	\$0.00	#####
375937	ULTRA WASH OF PHILADELPHIA, IN	05/30/2013	2013-1ST Q	\$50.00	-\$50.00	06/24/2013
337713	UNITED CORRSTACK	05/30/2013	2013-1ST Q	\$100.00	-\$100.00	06/20/2013
338340	VAN BENNETT	05/30/2013	2013-1ST Q	\$1,300.00	-\$1,300.00	08/21/2013

\$52,500.00	-\$50,400.00
--------------------	---------------------

June 2013

FINES - 54-07-00-3622

337763	CRESCENT BRASS MANUFACTURING	06/04/2013		\$265.05	-\$265.05	06/06/2013
--------	------------------------------	------------	--	----------	-----------	------------

\$265.05	-\$265.05
-----------------	------------------

July 2013

FINES - 54-07-00-3622

337763	CRESCENT BRASS MANUFACTURING	07/15/2013		\$265.05	-\$265.05	07/23/2013
--------	------------------------------	------------	--	----------	-----------	------------

337763	CRESCENT BRASS MANUFACTURING	07/15/2013		\$265.05	-\$265.05	07/23/2013
--------	------------------------------	------------	--	----------	-----------	------------

\$530.10	-\$530.10
-----------------	------------------

September 2013

FINES - 54-07-00-3622

377019	AKZO NOBEL COATINGS, INC. R&D	09/19/2013	2013-2ND Q	\$100.00	-\$100.00	10/15/2013
--------	-------------------------------	------------	------------	----------	-----------	------------

364195	BIMBO BAKERIES USA, INC.	09/19/2013	2013-2ND Q	\$500.00	-\$500.00	10/15/2013
--------	--------------------------	------------	------------	----------	-----------	------------

331117	CLOVER FARMS DAIRY	09/19/2013	2013-2ND Q	\$24,000.00	-\$24,000.00	10/18/2013
--------	--------------------	------------	------------	-------------	--------------	------------

337763	CRESCENT BRASS MANUFACTURING	09/19/2013	2013-2ND Q	\$2,200.00	-\$2,200.00	10/21/2013
337763	CRESCENT BRASS MANUFACTURING	09/30/2013		\$265.05	-\$265.05	10/09/2013
337763	CRESCENT BRASS MANUFACTURING	09/30/2013		\$265.05	-\$265.05	10/09/2013
337763	CRESCENT BRASS MANUFACTURING	09/30/2013		\$265.05	\$0.00	#####
365363	DAIRY FARMERS OF AMERICA	09/19/2013	2013-2ND Q	\$8,000.00	-\$8,000.00	10/01/2013
331089	IFS INDUSTRIES	09/19/2013	2013-2ND Q	\$6,000.00	-\$6,000.00	10/04/2013
331628	INTERSTATE CONTAINER READING	09/19/2013	2013-2ND Q	\$600.00	-\$600.00	10/08/2013
338345	LENTZ MILLING	09/19/2013	2013-2ND Q	\$250.00	-\$250.00	10/15/2013
336996	NATIONAL/YORGEY'S CLEANERS	09/19/2013	2013-2ND Q	\$200.00	-\$200.00	01/21/2014
334341	REMCON PLASTICS INC	09/19/2013	2013-2ND Q	\$300.00	-\$300.00	10/10/2013
377020	SAVOR STREET FOODS	09/19/2013	2013-2ND Q	\$50.00	-\$50.00	10/15/2013
337723	ST JOSEPH MEDICAL CENTER	09/19/2013	2013-2ND Q	\$300.00	-\$300.00	10/21/2013
331082	SWEET STREET DESSERTS	09/19/2013	2013-2ND Q	\$1,200.00	-\$1,200.00	10/15/2013
337716	TOM STURGIS PRETZELS INC	09/19/2013	2013-2ND Q	\$100.00	-\$100.00	10/18/2013
338340	VAN BENNETT	09/19/2013	2013-2ND Q	\$100.00	-\$100.00	10/15/2013
337710	YUASA BATTERY INC	09/19/2013	2013-2ND Q	\$100.00	-\$100.00	10/10/2013

\$44,795.15	-\$44,530.10
--------------------	---------------------

November 2013

FINES - 54-07-00-3622

337763	CRESCENT BRASS MANUFACTURING	11/18/2013		\$265.05	-\$265.05	11/25/2013
337763	CRESCENT BRASS MANUFACTURING	11/18/2013		\$265.05	-\$265.05	11/25/2013

\$530.10	-\$530.10
-----------------	------------------

December 2013

FINES - 54-07-00-3622

334354	CARPENTER CORPORATION	12/19/2013	2013-3RD Q	\$1,600.00	\$0.00	#####
341901	CLOISTER CAR WASH AND LUBE	12/19/2013	2013-3RD Q	\$600.00	-\$600.00	01/29/2014
331117	CLOVER FARMS DAIRY	12/19/2013	2013-3RD Q	\$21,750.00	-\$21,750.00	01/22/2014
337763	CRESCENT BRASS MANUFACTURING	12/19/2013	2013-3RD Q	\$100.00	-\$100.00	01/29/2014
331628	INTERSTATE CONTAINER READING	12/19/2013	2013-3RD Q	\$200.00	-\$200.00	01/30/2014
337726	READING PLATING & POLISHING	12/19/2013	2013-3RD Q	\$200.00	-\$200.00	01/29/2014
340271	READING TRUCK BODY LLC	12/19/2013	2013-3RD Q	\$100.00	-\$100.00	01/31/2014
377020	SAVOR STREET FOODS	12/19/2013	2013-3RD Q	\$100.00	-\$100.00	01/29/2014
331082	SWEET STREET DESSERTS	12/19/2013	2013-3RD Q	\$50.00	-\$50.00	01/14/2014
337716	TOM STURGIS PRETZELS INC	12/19/2013	2013-3RD Q	\$300.00	-\$300.00	01/14/2014
337713	UNITED CORRSTACK	12/19/2013	2013-3RD Q	\$100.00	-\$100.00	01/15/2014
338340	VAN BENNETT	12/19/2013	2013-3RD Q	\$50.00	\$0.00	#####

\$25,150.00	-\$23,500.00
--------------------	---------------------

February 2014**FINES - 54-07-00-3622**

337763	CRESCENT BRASS MANUFACTURING	02/20/2014		\$265.05	-\$265.05	02/21/2014
337763	CRESCENT BRASS MANUFACTURING	02/20/2014		\$265.05	-\$265.05	02/21/2014
337763	CRESCENT BRASS MANUFACTURING	02/20/2014		\$265.05	-\$265.05	02/21/2014
				<u>\$795.15</u>	<u>-\$795.15</u>	

March 2014**FINES - 54-07-00-3622**

331117	CLOVER FARMS DAIRY	03/24/2014	2013-4TH Q	\$5,000.00	\$0.00	#####
331089	IFS INDUSTRIES	03/24/2014	2013-4TH Q	\$3,050.00	\$0.00	#####
331628	INTERSTATE CONTAINER READING	03/24/2014	2013-4TH Q	\$250.00	\$0.00	#####
336996	NATIONAL/YORGEY'S CLEANERS	03/24/2014	2013-4TH Q	\$200.00	\$0.00	#####
331621	PRIZER PAINTER STOVE WORKS	03/24/2014	2013-4TH Q	\$50.00	\$0.00	#####
331094	QUAKER MAID MEATS	03/24/2014	2013-4TH Q	\$200.00	\$0.00	#####
				<u>\$8,750.00</u>	<u>\$0.00</u>	

Grand Total:	\$164,975.75	-\$152,210.70
---------------------	---------------------	----------------------

NOTES: September - Crescent Brass Manufacturing appears in other reports as an adjustment or correction entered in error, not unpaid

Corrected Grand Total:	\$164,710.70	(\$152,210.70)
-------------------------------	---------------------	-----------------------

APPENDIX 8

DATA MONITORING SPREADSHEET

QUARTERLY INFLUENT, EFFLUENT AND BIOSOLIDS SAMPLING

ANNUAL PRIORITY POLLUTANT SCANS ON PLANT INFLUENT, EFFLUENT AND BIOSOLIDS

PERFORMED:

1/29-30/13:	Influent
1/29-30/13:	Effluent
2/5/13:	Biosolids

2013 WEEKLY MERCURY TESTING AT PLANT INFLUENT POINTS AND PLANT EFFLUENT

MONTHLY 503 ANALYSIS FOR PLANT BIOSOLIDS

BIOSOLIDS FORM 43 PERFORMED 2/5/13 AND 8/13/13

Additional Testing for bis(2-Ethylhexyl)phthalate on Plant Influent, Effluent and Biosolids

2013 Influent Testing for TKN, Total Phosphorus, o-phosphate

Additional Testing for Total Dissolved Solids on Plant Influent and Effluent

DEP letter and NPDES amendment for mercury limit

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Entry Count

193 Total

14

14

16

14

4

4

14

14

14

14

4

14

4

14

4

4

4

2

1

4

2

14

0

0

0

0

0

0

0

0

0

0

[illegible]

[illegible]

Facility Name:	CITY OF READING WWTP										
Facility ID:	PAP026549										
Location:	EFFLUENT										
	Pollutant	Goals	Frequency	P.P's/quarterly		Quarterly		Quarterly		Quarterly	
				Date	Date	Date	Date	Date	Date	Date	Date
				1/29/2013	1/30/2013	4/24/2013	4/25/2013	7/23/2013	7/24/2013	10/21/2013	10/22/2013
01002	ARSENIC- TOTAL	0.427	4	0.002		<0.001		<0.001		<0.001	
01027	CADMIUM- TOTAL	0.018	4	<0.005		<0.005		<0.005		<0.005	
01034	CHROMIUM- TOTAL	0.022	4	0.005		0.005		<0.005		<0.005	
01042	COPPER- TOTAL	0.075	4	0.014		0.017		0.014		0.027	
00722	CYANIDE- FREE (AMENABLE)	0.023	4		<0.004		<0.004		<0.004		0.004
00720	CYANIDE- TOTAL	Monitor	4		0.006		0.005		0.005		0.006
01051	LEAD- TOTAL	0.111	4	<0.01		<0.01		<0.01		<0.01	
71900	MERCURY- TOTAL	0.00007	4	<0.0001		<0.0001		<0.0001		<0.0001	
01062	MOLYBDENUM- TOTAL	No Goal	0	0.01		0.01		0.03		0.03	
01067	NICKEL- TOTAL	3.43	4	0.008		0.006		<0.005		<0.005	
46000	PHENOLS- TOTAL	0.136	0		0.042		0.021		0.021		<0.01
01147	SELENIUM- TOTAL	0.027	0	<0.002							
01077	SILVER- TOTAL	0.037	4	<0.005		<0.005		<0.005		<0.005	
01092	ZINC- TOTAL	0.406	4	0.056		0.066		0.044		0.058	
	Oil and Grease				<5		<5		<5		<5
	Silica Gel				<5		<5		<5		<5
	Phosphorus			2.72		3.8		1.5		3.2	

DT#1

Entry Count

65

4

4

4

4

4

4

4

4

4

4

4

4

1

4

4

4

4

0

[illegible]

[illegible]

Facility Name:	CITY OF READING WWTP		
Facility ID:	PAP026549		
Location:	SLUDGE	Date	Date
	Pollutant		
01002	ARSENIC- TOTAL		
01027	CADMIUM- TOTAL		
01034	CHROMIUM- TOTAL		
01042	COPPER- TOTAL		
00722	CYANIDE- FREE (AMENABLE)		
00720	CYANIDE- TOTAL		
01051	LEAD- TOTAL		
71900	MERCURY- TOTAL		
01062	MOLYBDENUM- TOTAL		
01067	NICKEL- TOTAL		
46000	PHENOLS- TOTAL		
01147	SELENIUM- TOTAL		
01077	SILVER- TOTAL		
01092	ZINC- TOTAL		
	Phosphorus, Total		
	Oil and Grease		
	Oil and Grease, TPH		
	Nitrogen Ammonia		
	BOD		
	Bis		
	Barium		
	PCB's		

DTfl

Entry Count

193 Total

14
14
16
14
4
4
14
14
14
14
4
14
4
14
4
4
2
1
4
2
14
0
0
0
0
0
0
0
0
0
0



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



P.P / 1st Otr

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

RECEIVED

DEPT. OF PUBLIC WORKS

Date of Report: 02/12/13
Lab ID: 124-13-0004897

Date Collected: 01/29/13 08:40
Collected By: CLIENT

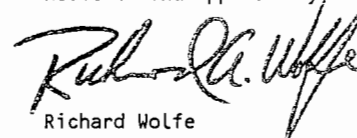
Sample Desc: 6th, 13-923 (Composite, Quarterly Priority Pollutants)

Date Received: 01/30/13 15:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	5.35	mg/l	2.5	50	SM 4500P-E	02/01	06:55	ALD
INORGANIC								
TOTAL								
Antimony, Total	<.005	mg/l	.005	1	EPA 200.8	02/01	12:47	RLS
Arsenic, Total	0.003	mg/l	.001	1	EPA 200.8	02/01	12:47	RLS
Beryllium, Total	<.005	mg/l	.005	1	EPA 200.8	02/01	12:47	RLS
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.8	02/01	12:47	RLS
Chromium, Total	0.019	mg/l	.005	1	EPA 200.8	02/01	12:47	RLS
Copper, Total	0.055	mg/l	.01	1	EPA 200.8	02/01	12:47	RLS
Lead, Total	0.02	mg/l	.01	1	EPA 200.7	02/06	13:29	RLS
Mercury, Total	0.0001	mg/l	.0001	1	EPA 245.1	02/04	14:58	JXS
Molybdenum, Total	0.02	mg/l	.01	1	EPA 200.8	02/01	12:47	RLS
Nickel, Total	0.026	mg/l	.005	1	EPA 200.8	02/01	12:47	RLS
Selenium, Total	<.002	mg/l	.002	1	EPA 200.9	01/31	13:21	RLS
Silver, Total	<.005	mg/l	.005	1	EPA 200.8	02/01	12:47	RLS
Thallium, Total	<.001	mg/l	.001	1	EPA 200.8	02/07	12:58	RLS
Zinc, Total	0.206	mg/l	.005	1	EPA 200.8	02/01	12:47	RLS
ORGANIC								
ACID COMPOUNDS								
2,4,6-Trichlorophenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2,4-Dichlorophenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2,4-Dimethylphenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2,4-Dinitrophenol	<50	ug/l	50	1	EPA 625	02/01	15:30	MEB
2-Chlorophenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2-Nitrophenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
4,6-Dinitro-o-cresol	<50	ug/l	50	1	EPA 625	02/01	15:30	MEB
4-Chloro-3-methylphenol	<20	ug/l	20	1	EPA 625	02/01	15:30	MEB
4-Nitrophenol	<50	ug/l	50	1	EPA 625	02/01	15:30	MEB

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAP accreditations for various drinking water, wastewater and solid & chemical materials analytes.



ACIL Seal of Excellence



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

DEPT. OF PUBLIC WORKS

Date of Report: 02/12/13
Lab ID: 124-13-0004897

Date Collected: 01/29/13 08:40
Collected By: CLIENT

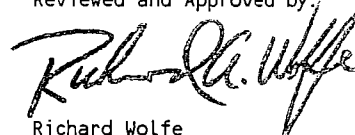
Sample Desc: 6th, 13-923 (Composite, Quarterly Priority Pollutants)

Date Received: 01/30/13 15:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Pentachlorophenol	<50	ug/L	50	1	EPA 625	02/01	15:30	MEB
Phenol	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
BASE NEUTRALS								
1,2,4-Trichlorobenzene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
1,2-Diphenylhydrazine (as Azobenzene)	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
2,3,7,8-Tetrachlorodibenzodioxin	see comment	ug/L	40	1	EPA 625	02/01	15:30	MEB
2,4-Dinitrotoluene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
2,6-Dinitrotoluene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
2-Chloronaphthalene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
3,3'-Dichlorobenzidine	<20	ug/L	20	1	EPA 625	02/01	15:30	MEB
3,4-Benzofluoranthene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
4-Bromophenyl phenyl ether	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
4-Chlorophenyl phenyl ether	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Acenaphthene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Acenaphthylene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Anthracene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Benzidine	<20	ug/L	20	1	EPA 625	02/01	15:30	MEB
Benzo(a)anthracene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Benzo(a)pyrene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Benzo(ghi)perylene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Benzo(k)fluoranthene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Bis(2-chloroethoxy)methane	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Bis(2-Chloroethyl) ether	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Bis(2-Chloroisopropyl) ether	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Bis(2-Ethylhexyl) phthalate	12	ug/L	5	2	EPA 625	02/01	15:30	MEB
Butyl benzyl phthalate	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Chrysene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Di-n-butyl phthalate	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Di-n-octyl phthalate	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Dibenz(a,h)anthracene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611

PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

RECEIVED

DEPT. OF PUBLIC WORKS

Date of Report: 02/12/13
Lab ID: 124-13-0004897

Date Collected: 01/29/13 08:40
Collected By: CLIENT

Sample Desc: 6th, 13-923 (Composite, Quarterly Priority Pollutants)

Date Received: 01/30/13 15:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Diethyl phthalate	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Dimethyl phthalate	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Fluoranthrene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Fluorene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Hexachlorobenzene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Hexachlorobutadiene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Hexachlorocyclopentadiene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Hexachloroethane	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Indeno(1,2,3-cd)pyrene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Isophorone	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Library Search, Semivolatiles	see comment	ug/L	40	1	EPA 625	02/01	15:30	MEB
N-Nitrosodi-n-propylamine	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
N-Nitrosodimethylamine	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
N-Nitrosodiphenylamine	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Naphthalene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Nitrobenzene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Phenanthrene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Pyrene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
EXTRACTION								
EPA 608 Extraction	Complete		0	0	EPA 608	02/01	09:00	MCM
EPA 625 Extraction	Complete		0	0	EPA 625	01/31	08:00	JLV
PCBS								
PCB-1016	<5	ug/L	5	1	EPA 608	02/02	04:40	TWH
PCB-1221	<5	ug/L	5	1	EPA 608	02/02	04:40	TWH
PCB-1232	<5	ug/L	5	1	EPA 608	02/02	04:40	TWH
PCB-1242	<5	ug/L	5	1	EPA 608	02/02	04:40	TWH
PCB-1248	<5	ug/L	5	1	EPA 608	02/02	04:40	TWH
PCB-1254	<5	ug/L	5	1	EPA 608	02/02	04:40	TWH
PCB-1260	<5	ug/L	5	1	EPA 608	02/02	04:40	TWH
PESTICIDES								

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.



ACIL Seal of Excellence

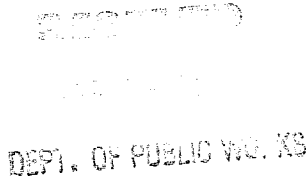


CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601



Date of Report: 02/12/13
Lab ID: 124-13-0004897

Date Collected: 01/29/13 08:40
Collected By: CLIENT

Sample Desc: 6th, 13-923 (Composite, Quarterly Priority Pollutants)

Date Received: 01/30/13 15:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
4,4'-DDD	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
4,4'-DDE	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
4,4'-DDT	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
Aldrin	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
alpha-BHC	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
beta-BHC	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
Chlordane	<1	ug/L	1	1	EPA 608	02/02	04:40	TWH
delta-BHC	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
Dieldrin	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
Endosulfan I	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
Endosulfan II	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
Endosulfan sulfate	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
Endrin	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
Endrin aldehyde	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
Heptachlor	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
Heptachlor Epoxide	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
Lindane (Gamma BHC)	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
Toxaphene	<10	ug/L	10	1	EPA 608	02/02	04:40	TWH

COMMENTS

- 01 The continuing calibration verification was above acceptable limits, however beryllium was not detected at or above the laboratory reporting limit.

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611

PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reid Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

RECEIVED
DEPT. OF PUBLIC WORKS

Date of Report: 02/12/13
Lab ID: 124-13-0004897
Date Collected: 01/29/13 08:40
Collected By: CLIENT
Date Received: 01/30/13 15:45


Sample Desc: 6th, 13-923 (Composite, Quarterly Priority Pollutants)

Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
--------	------	------------	---------------	-----------	-----------	-----------	---------

- 02 One or more semi-volatile compounds had high recovery in the CCV but none of these compounds were detected in this sample above the laboratory's reporting limit.
- 03 The semi-volatile extract was analyzed for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. There was no indication of the characteristic ion in the extract.
- 04 The svoc library search tentatively identified: several Decanoic Acids, 2-Butoxy-Ethanol, Caffeine, Cyclohexadecane, Z-11-Hexadecenoic acid, (E)-5-Octadecene.
- 05 The svoc library search also tentatively identified: three Cosanes, (Z,Z)-9,12-Octadecadienoic Acid, Cholesterol, Hexamethyl-Tetracosahexaene, 17-(1,5-Dimethylhexyl)-Dimethyl
- 06 For EPA 608 the CCV had high 4,4'-DDD and Endosulfan II recoveries, and low Heptachlor, 4,4'-DDT, Methoxychlor, Endrin ketone, and Toxaphene recoveries.

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reid Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611

PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

RECEIVED
DEPT. OF PUBLIC WORKS

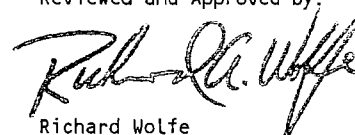
Date of Report: 02/12/13
Lab ID: 124-13-0004898
Date Collected: 01/30/13 08:35
Collected By: CLIENT
Date Received: 01/30/13 15:45

Sample Desc: 6th, 13-924 (Grab, Quarterly Priority Pollutants)

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	01/31	15:46	JCL
Cyanide, Total	0.006	mg/L	.004	1	10204001X	01/31	15:46	JCL
Phenols (4AAP)	0.121	mg/L	.01	1	EPA 420.4	01/31	12:13	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	30	mg/L	5	1	EPA 1664	01/31	05:30	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	02/01	13:00	WXC

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004910

Date Collected: 01/30/13 08:35
Collected By: CLIENT

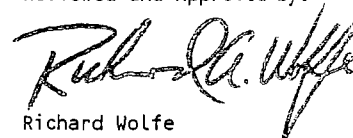
Sample Desc: 6th (13-924, 13-945, 13-951, 13-953 - Lab Composite of 4 Grabs, Quarterly
Priority Pollutants)

Date Received: 01/30/13 15:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,1,2,2-Tetrachloroethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,1,2-Trichloroethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,1-Dichloroethylene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,2-Dichloroethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,2-Dichloropropane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,3-Dichlorobenzene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,4-Dichlorobenzene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
2-Chloroethylvinyl Ether	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Acrolein	<50	ug/L	50	1	EPA 624	01/31	09:23	GXF
Acrylonitrile	<50	ug/L	50	1	EPA 624	01/31	09:23	GXF
Benzene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Bromomethane (Methyl Bromide)	<10	ug/L	10	1	EPA 624	01/31	09:23	GXF
Carbon Tetrachloride	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Chloroethane	<10	ug/L	10	1	EPA 624	01/31	09:23	GXF
Chloroform	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	01/31	09:23	GXF
cis-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
cis-1,3-Dichloropropylene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Dichlorobromomethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Ethylbenzene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Library Search, Volatiles	see comment	ug/L	15	1	EPA 624	01/31	09:23	GXF
Methylene Chloride	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004910

Date Collected: 01/30/13 08:35
Collected By: CLIENT

Sample Desc: 6th (13-924, 13-945, 13-951, 13-953 - Lab Composite of 4 Grabs, Quarterly
Priority Pollutants)

Date Received: 01/30/13 15:45


	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Tetrachloroethylene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Toluene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
trans-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
trans-1,3-Dichloropropylene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Trichloroethylene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Trichlorofluoromethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Vinyl Chloride	<10	ug/L	10	1	EPA 624	01/31	09:23	GXF
Xylenes (Total)	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF

COMMENTS

01 The VOC library search tentatively identified 1-Propanol, 2-Propanol, Acetone, and Limonene.

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAP accreditations for various drinking water, wastewater and solid & chemical materials analytes.





M. J. Reider Associates, Inc.

107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Lab; Pink: Submitter

R 33775

Page ____ of ____

6. Report Type:

Routine

Standard QC

Data Package

7. Turnaround Time

Standard

RUSH: ____/____/____

1. Client (Company or Individual):

City of Reading

Address:

815 Washington St.

City:

Reading

State:

Pa

ZIP:

19601

Phone:

FAX:

2. Invoice To: (If different from above)

Lab #124

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #: Priority Pollutant / Analyte

P.O. No.:

5. Sampled By:

Matrix Code (for item 12)

Container Codes (for item 13)

Preservative Code (for item 14)

DW = Drinking Water

GW = Ground Water

WW = Waste Water

S = Soil

O = Other

2L = 2 Liter

L = Liter

500 = 500ml

250 = 250ml

125 = 125ml

40 = 40ml

V = VOA vial

G = Glass

P = Plastic

M = Micro

O = Other

A = Ascorbic Acid

C = HCl

N = HNO3

S = H2SO4

P = H3PO4

H = NaOH

T = Na2S2O3

E = EDTA

L = NH4Cl

Z = Zinc Acetate

V = Ascorbic/HCl

O = Other

M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

Samples received on Ice?

Sample Containers Intact?

VOC's Free of Headspace?

COC Seal Intact or attached?

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by:

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

PWSID #

☐ NPDES

16.

17. SPECIAL INSTRUCTIONS/COMMENTS:

Metals: Ag, As, Be, Cd, Cr, Cu, Hg, Pb, Mo, Ni, Sb, Se, Ti, Zn

Composite VOA bottles

L/P	L/P	500/P	500/G	L/G	V/40	L/G
S	N	#/A	S	C	C	-

13. Container: Size / Type

14. Preservative

15. Analyses Requested

Metals, Total phosphorus

625 (Semi-vol); 608 (PCB+Pest)

CN (Tot+Free), Phenols

Oil & Grease (HM+SGTHEM), 624 (Vol)

Metals, Total Phosphorus

625 (Semi-vol); 608 (PCB+Pest)

CN (Tot+Free), Phenols

Oil & Grease (HM+SGTHEM), 624 (Vol)

Voa (624)

MJRA

ID #

9. Sample

Description

10.

Date

Time

11.

Composite

Grab

12.

Matrix

Total # of Containers

4897

6th 13-923

1/29/13 840

X

W

W

1

1

4

4898

6th 13-924

1/29/13 835

X

W

W

2

1

2

5

4

4899

GC 13-921

1/29/13 813

X

W

W

1

1

4

4900

GC 13-922

1/29/13 808

X

W

W

2

1

2

5

4

4901

FC 13-943

1-30-13 1100

X

W

W

2

1

2

5

4

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by:

Approved by:

TST hrs

Comments:

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



M. J. Reider Associates, Inc.

107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Lab; Pink: Submitter

R 33881

Page ____ of ____

6. Report Type:

☒ Routine

☐ Standard QC

☐ Data Package

7. Turnaround Time

☒ Standard

RUSH: ____/____/____

1. Client (Company or Individual):

City of Reading

Address:

815 Washington St

City:

Reading

State:

Pa

ZIP:

19601

Phone:

FAX:

2. Invoice To: (if different from above)

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #:

Priority Pollutant / Quarterly Lab #124

5. Sampled By:

Matrix Code (for item 12)

DW = Drinking Water

GW = Ground Water

WW = Waste Water

S = Soil

O = Other

Container Codes (for item 13)

SIZE

TYPE

2L = 2 Liter

L = Liter

500 = 500ml

250 = 250ml

125 = 125ml

40 = 40ml

V = VOA vial

G = Glass

P = Plastic

M = Micro

O = Other

Preservative Code (for item 14)

A = Ascorbic Acid

C = HCl

N = HNO3

S = H2SO4

P = H3PO4

H = NaOH

M = Monochloroacetic Acid

T = NaS2O3

E = EDTA

L = NH4Cl

Z = Zinc Acetate

V = Ascorbic/HCl

O = Other

Sample Receipt Information

Temperature @ 4C?

Samples received on ice?

Sample Containers Intact?

VOC's Free of Headspace?

COC Seal Intact or attached?

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by:

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

PWSID #

☐ NPDES

16.

Total # of Containers

17.

17. SPECIAL INSTRUCTIONS/COMMENTS:

Metals As, As, Be, Cd, Cr, Cu, Hg, Pb, Mg, Ni, Sb, Se, Ti, Zn

Composite VOA bottles

Y/P Y/P 500/P 500/G Y/G Y/40 Y/G

S N H/A S C C -

13. Container: Size / Type

14. Preservative

15. Analyses Requested

Metals, Total phosphorus

625 (semi-vol) 608 (PCB+Pest)

CV (Total+Free), Phenols,

0+G (Hem+Sgt Hem), 624 (vol)

Metals, Total phosphorus

625 (semi-vol) 608 (PCB+Pest)

CV (total+free) phenols,

0+G (Hem+Sgt Hem) 624 (vol)

VOA (624)

MJRA

ID #

9. Sample

Description

10.

Date

Time

11.

Composite

Grab

12.

Matrix

13.

14.

15.

16.

17.

18.

19.

20.

21.

22.

23.

24.

25.

26.

27.

28.

29.

30.

31.

32.

33.

34.

35.

36.

37.

38.

39.

40.

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by:

Approved by:

TST: _____ hrs

Comments:

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



M. J. Reider Associates, Inc.

107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

R 34267

Page 3 of 4

6. Report Type:

☒ Routine

☐ Standard QC

☐ Data Package

7. Turnaround Time

☒ Standard

RUSH: 1 / 1 / 1

1. Client (Company or Individual):

City of Reading

Address:

815 Washington St
Reading, PA 19601

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #:

Priority Pollutants Quarterly Lab #124

5. Sampled By:

Matrix Code (for item 12)

Container Codes (for item 13)

Preservative Code (for item 14)

DW = Drinking Water

GW = Ground Water

WW = Waste Water

S = Soil

O = Other

2L = 2 Liter

L = Liter

500 = 500ml

250 = 250ml

125 = 125ml

40 = 40ml

V = VOA vial

G = Glass

P = Plastic

M = Micro

O = Other

A = Ascorbic Acid

C = HCl

N = HNO3

S = H2SO4

P = H3PO4

H = NaOH

T = Na2S2O3

E = EDTA

L = NH4Cl

Z = Zinc Acetate

V = Ascorbic/HCl

O = Other

M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

Samples received on ice?

Sample Containers Intact?

VOC's Free of Headspace?

COC Seal Intact or attached?

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by: ICS

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

PWSID #

☐ NPDES

16.

MJRA
ID #

9. Sample

Description

10.

11.

12.

Date

Time

Composite

Grab

Matrix

Total # of Containers

13. Container: Size / Type

14. Preservative

15. Analyses Requested

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by

Approved by

Comments

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



M. J. Reider Associates, Inc.

107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Lab; Pink: Submitter

R 33777

Page 3 of 4

6. Report Type:

☒ Routine

☐ Standard QC

☐ Data Package

7. Turnaround Time

☒ Standard

RUSH: / /

1. Client (Company or Individual):

Address:

City:

State:

ZIP:

Phone:

FAX:

2. Invoice To: (If different from above)

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #:

5. Sampled By:

Matrix Code (for item 12)

Container Codes (for item 13)

Preservative Code (for item 14)

DW = Drinking Water

GW = Ground Water

WW = Waste Water

S = Soil

O = Other

2L = 2 Liter

L = Liter

500 = 500ml

250 = 250ml

125 = 125ml

40 = 40ml

V = VOA vial

G = Glass

P = Plastic

M = Micro

O = Other

A = Ascorbic Acid

C = HCl

N = HNO3

S = H2SO4

P = H3PO4

H = NaOH

T = Na2S2O3

E = EDTA

L = NH4Cl

Z = Zinc Acetate

V = Ascorbic/HCl

O = Other

M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

Samples received on ice?

Sample Containers intact?

VOC's Free of Headspace?

COC Seal Intact or attached?

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by:

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

PWSID #

☐ NPDES

16.

17. SPECIAL INSTRUCTIONS/COMMENTS:

Composite VOA Bottles

13. Container: Size / Type

14. Preservative

15. Analyses Requested

MJRA

ID #

9. Sample

Description

10.

Date

Time

11.

Composite

Grab

12.

Matrix

Total # of Containers

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by: Approved by: TST hrs.

Comments

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



D.P. 1st Qtr

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004899

Date Collected: 01/29/13 08:13
Collected By: CLIENT


Sample Desc: GC, 13-921 (Composite, Quarterly Priority Pollutants)

Date Received: 01/30/13 15:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	5.5	mg/L	.5	10	SM 4500P-E	02/01	06:55	ALD
INORGANIC								
TOTAL								
Antimony, Total	<.005	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.8	02/01	12:47	RLS
Beryllium, Total	<.005	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Chromium, Total	<.005	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Copper, Total	0.066	mg/L	.01	1	EPA 200.8	02/01	12:47	RLS
Lead, Total	<.01	mg/L	.01	1	EPA 200.7	02/06	13:29	RLS
Mercury, Total	0.0001	mg/L	.0001	1	EPA 245.1	02/04	14:58	JXS
Molybdenum, Total	<.01	mg/L	.01	1	EPA 200.8	02/01	12:47	RLS
Nickel, Total	0.005	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Selenium, Total	<.002	mg/L	.002	1	EPA 200.9	01/31	13:21	RLS
Silver, Total	<.005	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Thallium, Total	<.001	mg/L	.001	1	EPA 200.8	02/07	12:58	RLS
Zinc, Total	0.140	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
ORGANIC								
ACID COMPOUNDS								
2,4,6-Trichlorophenol	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
2,4-Dichlorophenol	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
2,4-Dimethylphenol	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
2,4-Dinitrophenol	<50	ug/L	50	1	EPA 625	02/01	15:30	MEB
2-Chlorophenol	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
2-Nitrophenol	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
4,6-Dinitro-o-cresol	<50	ug/L	50	1	EPA 625	02/01	15:30	MEB
4-Chloro-3-methylphenol	<20	ug/L	20	1	EPA 625	02/01	15:30	MEB
4-Nitrophenol	<50	ug/L	50	1	EPA 625	02/01	15:30	MEB

Distribution of Reports:

Reviewed and Approved by:

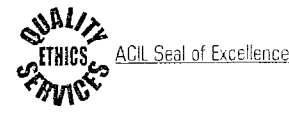

Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004899

Date Collected: 01/29/13 08:13
Collected By: CLIENT

Sample Desc: GC, 13-921 (Composite, Quarterly Priority Pollutants)

Date Received: 01/30/13 15:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Pentachlorophenol	<50	ug/L	50	1	EPA 625	02/01	15:30	MEB
Phenol	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
BASE NEUTRALS								
1,2,4-Trichlorobenzene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
1,2-Diphenylhydrazine (as Azobenzene)	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
2,3,7,8-Tetrachlorodibenzodioxin	see comment	ug/L	40	1	EPA 625	02/01	15:30	MEB
2,4-Dinitrotoluene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
2,6-Dinitrotoluene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
2-Chloronaphthalene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
3,3'-Dichlorobenzidine	<20	ug/L	20	1	EPA 625	02/01	15:30	MEB
3,4-Benzofluoranthene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
4-Bromophenyl phenyl ether	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
4-Chlorophenyl phenyl ether	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Acenaphthene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Acenaphthylene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Anthracene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Benzidine	<20	ug/L	20	1	EPA 625	02/01	15:30	MEB
Benzo(a)anthracene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Benzo(a)pyrene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Benzo(ghi)perylene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Benzo(k)fluoranthene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Bis(2-chloroethoxy)methane	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Bis(2-Chloroethyl) ether	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Bis(2-Chloroisopropyl) ether	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Bis(2-Ethylhexyl) phthalate	15	ug/L	5	2	EPA 625	02/01	15:30	MEB
Butyl benzyl phthalate	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Chrysene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Di-n-butyl phthalate	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Di-n-octyl phthalate	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Dibenz(a,h)anthracene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004899

Date Collected: 01/29/13 08:13
Collected By: CLIENT

Sample Desc: GC, 13-921 (Composite, Quarterly Priority Pollutants)

Date Received: 01/30/13 15:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Diethyl phthalate	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Dimethyl phthalate	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Fluoranthrene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Fluorene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Hexachlorobenzene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Hexachlorobutadiene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Hexachlorocyclopentadiene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Hexachloroethane	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Indeno(1,2,3-cd)pyrene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Isophorone	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Library Search, Semivolatiles	see comment	ug/L	40	1	EPA 625	02/01	15:30	MEB
N-Nitrosodi-n-propylamine	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
N-Nitrosodimethylamine	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
N-Nitrosodiphenylamine	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Naphthalene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Nitrobenzene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Phenanthrene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Pyrene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
EXTRACTION								
EPA 608 Extraction	Complete		0	0	EPA 608	02/01	09:00	MCM
EPA 625 Extraction	Complete		0	0	EPA 625	01/31	08:00	JLV
PCBS								
PCB-1016	<5	ug/L	5	1	EPA 608	02/02	04:40	TWH
PCB-1221	<5	ug/L	5	1	EPA 608	02/02	04:40	TWH
PCB-1232	<5	ug/L	5	1	EPA 608	02/02	04:40	TWH
PCB-1242	<5	ug/L	5	1	EPA 608	02/02	04:40	TWH
PCB-1248	<5	ug/L	5	1	EPA 608	02/02	04:40	TWH
PCB-1254	<5	ug/L	5	1	EPA 608	02/02	04:40	TWH
PCB-1260	<5	ug/L	5	1	EPA 608	02/02	04:40	TWH
PESTICIDES								

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.

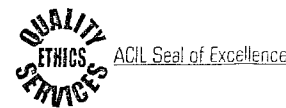


ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611

PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current

NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004899

Date Collected: 01/29/13 08:13
Collected By: CLIENT

Sample Desc: GC, 13-921 (Composite, Quarterly Priority Pollutants)

Date Received: 01/30/13 15:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
4,4'-DDD	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
4,4'-DDE	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
4,4'-DDT	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
Aldrin	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
alpha-BHC	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
beta-BHC	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
Chlordane	<1	ug/L	1	1	EPA 608	02/02	04:40	TWH
delta-BHC	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
Dieldrin	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
Endosulfan I	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
Endosulfan II	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
Endosulfan sulfate	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
Endrin	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
Endrin aldehyde	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
Heptachlor	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
Heptachlor Epoxide	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
Lindane (Gamma BHC)	<.5	ug/L	.5	1	EPA 608	02/02	04:40	TWH
Toxaphene	<10	ug/L	10	1	EPA 608	02/02	04:40	TWH

COMMENTS

- 01 The continuing calibration verification was above acceptable limits, however beryllium was not detected at or above the laboratory reporting limit.

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004899

Date Collected: 01/29/13 08:13
Collected By: CLIENT

Sample Desc: GC, 13-921 (Composite, Quarterly Priority Pollutants)

Date Received: 01/30/13 15:45

Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
--------	------	---------------	------------------	-----------	--------------	--------------	---------

- 02 One or more semi-volatile compounds had high recovery in the CCV but none of these compounds were detected in this sample above the laboratory's reporting limit.
- 03 The semi-volatile extract was analyzed for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. There was no indication of the characteristic ion in the extract.
- 04 The svoc library search tentatively identified: several Decanoic Acids, Cyclohexadecane, E-15-Heptadecenal, Squalene, (E)-9-Octadecenoic acid, Cholesterol.
- 05 For EPA 608 the matrix spike had low recoveries due to matrix interference.
- 06 For EPA 608 the CCV had high 4,4'-DDD and Endosulfan II recoveries, and low Heptachlor, 4,4'-DDT, Methoxychlor, Endrin Ketone, and Toxaphene recoveries.

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004900

Date Collected: 01/30/13 08:08
Collected By: CLIENT

Sample Desc: GC, 13-922 (Grab, Quarterly Priority Pollutants)

Date Received: 01/30/13 15:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	01/31	15:46	JCL
Cyanide, Total	<.004	mg/L	.004	1	10204001X	01/31	15:46	JCL
Phenols (4AAP)	0.044	mg/L	.01	1	EPA 420.4	01/31	12:13	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	7	mg/L	5	1	EPA 1664	01/31	05:30	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	02/01	13:00	WXC

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAP accreditations for various drinking water, wastewater and solid & chemical materials analytes.



ACIL Seal of Excellence



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004907

Date Collected: 01/30/13 08:08
Collected By: CLIENT


Sample Desc: GC (13-922, 13-944, 13-952, 13-954 - Lab Composite of 4 Grabs, Quarterly Priority Pollutants)

Date Received: 01/30/13 15:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,1,2,2-Tetrachloroethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,1,2-Trichloroethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,1-Dichloroethylene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,2-Dichloroethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,2-Dichloropropane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,3-Dichlorobenzene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,4-Dichlorobenzene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
2-Chloroethylvinyl Ether	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Acrolein	<50	ug/L	50	1	EPA 624	01/31	09:23	GXF
Acrylonitrile	<50	ug/L	50	1	EPA 624	01/31	09:23	GXF
Benzene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Bromomethane (Methyl Bromide)	<10	ug/L	10	1	EPA 624	01/31	09:23	GXF
Carbon Tetrachloride	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Chloroethane	<10	ug/L	10	1	EPA 624	01/31	09:23	GXF
Chloroform	8	ug/L	5	1	EPA 624	01/31	09:23	GXF
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	01/31	09:23	GXF
cis-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
cis-1,3-Dichloropropylene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Dichlorobromomethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Ethylbenzene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Library Search, Volatiles	see comment	ug/L	15	1	EPA 624	01/31	09:23	GXF
Methylene Chloride	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current NELAC accreditations for various drinking water, wastewater and solid & chemical materials analysis.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004907

Date Collected: 01/30/13 08:08
Collected By: CLIENT

Sample Desc: GC (13-922, 13-944, 13-952, 13-954 - Lab Composite of 4 Grabs, Quarterly
Priority Pollutants)

Date Received: 01/30/13 15:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Tetrachloroethylene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Toluene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
trans-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
trans-1,3-Dichloropropylene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Trichloroethylene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Trichlorofluoromethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Vinyl Chloride	<10	ug/L	10	1	EPA 624	01/31	09:23	GXF
Xylenes (Total)	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF

COMMENTS

01 The VOC library search tentatively identified 1-Propanol, 2-Propanol, Acetone, and 3 unknown hydrocarbons.

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAP accreditations for various drinking water, wastewater and solid & chemical materials analytes.





M. J. Reider Associates, Inc.

107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Lab; Pink: Submitter

R 33775

Page ____ of ____

6. Report Type:

Routine

Standard QC

Data Package

7. Turnaround Time

Standard

RUSH: ____/____/____

1. Client (Company or Individual):

City of Reading

Address:

815 Washington St.

City:

Reading

State:

Pa

ZIP:

19601

Phone:

FAX:

2. Invoice To: (If different from above)

Lab #124

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #: Priority Pollutant / Quarterly

P.O. No.:

5. Sampled By:

Matrix Code (for item 12)

DW = Drinking Water
GW = Ground Water
WW = Waste Water
S = Soil
O = Other

Container Codes (for item 13)
SIZE TYPE

2L = 2 Liter
L = Liter
500 = 500ml
250 = 250ml
125 = 125ml
40 = 40ml
V = VOA vial
G = Glass
P = Plastic
M = Micro
O = Other

Preservative Code (for item 14)

A = Ascorbic Acid
C = HCl
N = HNO3
S = H2SO4
P = H3PO4
H = NaOH
M = Monochloroacetic Acid
T = Na2S2O3
E = EDTA
L = NH4Cl
Z = Zinc Acetate
V = Ascorbic/HCl
O = Other

Sample Receipt Information

Temperature @ 4C?

Samples received on Ice?

Sample Containers Intact?

VOC's Free of Headspace?

COC Seal Intact or attached?

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by:

17. SPECIAL INSTRUCTIONS/COMMENTS:

Metals: Ag, As, Be, Cd, Cr, Cu, Hg, Pb, Mo, Ni, Sb, Se, Ti, Zn

Composite VOA bottles

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

PWSID #

☐ NPDES

16.

Total # of Containers

MJRA ID #	9. Sample Description	10.		11.		12.	Total # of Containers	13. Container: Size / Type							14. Preservative	15. Analyses Requested
		Date	Time	Composite	Grab	Matrix		L/P	L/P	500/P	500/G	L/G	V/40	L/G		
4897	6 th 13-923	1/29/13	840	X		W	1	1							4	Metals, Total phosphorous
4898	6 th 13-924	1/29/13	835		X	W				2	1	2	5			625 (Semi-vol); 608 (PCB+Pest)
4899	GC 13-921	1/29/13	813	X		W	1	1							4	CN (Tot+Free), Phenols, Oil+Grease (HM+SG+HEM), 624 (Vol)
4900	GC 13-922	1/29/13	808		X	W				2	1	2	5			Metals, Total Phosphorous
4901	FC 13-943	1-30-13	1100	X		W								5		625 (Semi-vol); 608 (PCB+Pest)
																CN (Tot+Free), Phenols, Oil+Grease (HM+SG+HEM), 624 (Vol)
																Voa (624)

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by

Approved by

TST # hrs

Comments

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.

**M. J. Reider Associates, Inc.**107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Lab; Pink: Submitter

R 33881

Page ____ of ____

6. Report Type:☒ Routine

Standard QC

Data Package

7. Turnaround Time☒ Standard

RUSH: ____/____/____

1. Client (Company or Individual):

City of Reading

Address:815 Washington St
City: Reading State: Pa ZIP: 19601 Phone: FAX:**2. Invoice To: (if different from above)****Address:**

City: State: ZIP: Phone: FAX:

3. Client Project Name / #: Priority Pollutant/Quarterly Lab #124**5. Sampled By:**

Matrix Code (for item 12)	Container Codes (for item 13)		Preservative Code (for item 14)	
	SIZE	TYPE	A = Ascorbic Acid	T = NaS2O3
DW = Drinking Water	2L = 2 Liter	V = VOA vial	C = HCl	E = EDTA
GW = Ground Water	L = Liter	G = Glass	N = HNO3	L = NH4Cl
WW = Waste Water	500 = 500ml	P = Plastic	S = H2SO4	Z = Zinc Acetate
S = Soil	250 = 250ml	M = Micro	P = H3PO4	V = Ascorbic/HCl
O = Other	125 = 125ml	O = Other	H = NaOH	O = Other
	40 = 40ml		M = Monochloroacetic Acid	

Sample Receipt InformationTemperature @ 4C? ☒ N ☒Samples received on ice? ☒ N ☒Sample Containers Intact? ☒ N ☒

VOC's Free of Headspace? Y N

COC Seal Intact or attached? Y N

Samples Shipped or Hand Delivered

Method of Shipment: _____

Tracking #: _____

Cooler Return Fee: _____

ICE CHEST NUMBER: _____

Checked by: PS

17. SPECIAL INSTRUCTIONS/COMMENTS:metals As, Hs, Be, Cd, Cr, Cu, Hg, Pb, Mo, Ni, Sb, Se, Ti, Zn
Composite VOA bottles**8. COMPLIANCE PURPOSE:**☐ Public Drinking Water: PA SDWA Forms Required☐ FHA/Really

PWSID # _____

☐ NPDES

MJRA ID #	9. Sample Description	10.		11.		12.	Total # of Containers	13. Container: Size / Type							14. Preservative	15. Analyses Requested
		Date	Time	Composite	Grab	Matrix		Y/P	Y/P	500/P	500/G	7/6	1/40	7/6		
4902	final 13-902	1/29/13	801	X		W	6	1	1					4		Metals, Total phosphorus
4903	final 13-920	1/29/13	810		X	W	10			2	1	2	135			625 (semi-vol); 608 (PCB+Pest)
4904	Raw 13-930	1-29-13	914	X		W	6	1	1					4		Cu (Total + Free), Phenols, Org (Hem + Sgt Hem), 624 (vol)
4905	Raw 13-929	1-30-13	905		X	W	10			2	1	2	5			Metals, Total phosphorus
4906	FC 13-942	1/30/13	1050		X	W	5							5		625 (semi-vol) 608 (PCB+Pest)

18. RELINQUISHED BY**19. RECEIVED BY**

DATE

TIME

Entered by:

Approved by: _____ TST _____ hrs

Comments:

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



M. J. Reider Associates, Inc.

107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Lab; Pink: Submitter

R 34267

Page 3 of 4

6. Report Type:

☒ Routine

☐ Standard QC

☐ Data Package

7. Turnaround Time

☒ Standard

RUSH: 1/1/13

1. Client (Company or Individual):

City of Reading

Address:

815 Washington St

City:

Reading

State:

Pa

ZIP:

19601

Phone:

FAX:

2. Invoice To: (If different from above)

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #:

Priority Pollutants / Quarterly Lab #124

5. Sampled By:

Matrix Code (for item 12)

Container Codes (for item 13)

Preservative Code (for item 14)

DW = Drinking Water

GW = Ground Water

WW = Waste Water

S = Soil

O = Other

2L = 2 Liter

L = Liter

500 = 500ml

250 = 250ml

125 = 125ml

40 = 40ml

V = VOA vial

G = Glass

P = Plastic

M = Micro

O = Other

A = Ascorbic Acid

C = HCl

N = HNO3

S = H2SO4

P = H3PO4

H = NaOH

M = Monochloroacetic Acid

T = NaS2O3

E = EDTA

L = NH4Cl

Z = Zinc Acetate

V = Ascorbic/HCl

O = Other

Sample Receipt Information

Temperature @ 4C?

☒

N

Samples received on ice?

☒

N

Sample Containers Intact?

☒

N

VOC's Free of Headspace?

Y

N

COC Seal Intact or attached?

Y

N

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee

ICE CHEST NUMBER:

Checked by: JCS

17. SPECIAL INSTRUCTIONS/COMMENTS:

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

PWSID #

☐ NPDES

16.

Total # of Containers

MJRA

ID #

9. Sample

Description

10.

Date

Time

11.

Composite

Grab

12.

Matrix

4907

GC 13-954

4/30/13

1504

✓

W

6

6

13. Container: Size / Type

14. Preservative

15. Analyses Requested

Voa (675)

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by

Approved by

TST hrs

Comments

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



M. J. Reider Associates, Inc.

107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Lab; Pink: Submitter

R 33777

Page 3 of 4

6. Report Type:

☒ Routine

Standard QC

Data Package

7. Turnaround Time

☒ Standard

RUSH:

1. Client (Company or Individual):

Address:

City:

State:

ZIP:

Phone:

FAX:

2. Invoice To: (If different from above)

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #:

5. Sampled By:

Matrix Code (for item 12)

Container Codes (for item 13)

Preservative Code (for item 14)

DW = Drinking Water

GW = Ground Water

WW = Waste Water

S = Soil

O = Other

2L = 2 Liter

L = Liter

500 = 500ml

250 = 250ml

125 = 125ml

40 = 40ml

V = VOA vial

G = Glass

P = Plastic

M = Micro

O = Other

A = Ascorbic Acid

C = HCl

N = HNO3

S = H2SO4

P = H3PO4

H = NaOH

T = NaS2O3

E = EDTA

L = NH4Cl

Z = Zinc Acetate

V = Ascorbic/HCl

O = Other

M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

Samples received on ice?

Sample Containers Intact?

VOC's Free of Headspace?

COC Seal Intact or attached?

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by:

17. SPECIAL INSTRUCTIONS/COMMENTS:

Composite VOA Bottles

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

☐ NPDES

PWSID #

16.

Total # of Containers

MJRA ID #	9. Sample Description	10.		11.		12.	Total # of Containers	13. Container: Size / Type								14. Preservative								15. Analyses Requested								
		Date	Time	Composite	Grab	Matrix																										
4909	GC 13-944	1/30/13	1049		✓	W	5	5																								Voa (625)
4910	6 th 13-945	1/30/13	1103		✓	W	5	5																								Voa (625)
4911	FC 13-947	1/30/13	1319		✓	W	5	5																								Voa (625)
4912	RC 13-948	1/30/13	1324		✓	W	5	5																								Voa (625)
4913	FC 13-949	1/30/13	1458		✓	W	6	6																								Voa (625)
4914	RC 13-950	1/30/13	1505		✓	W	6	6																								Voa (625)
4915	6 th 13-951	1/30/13	1350		✓	W	5	5																								Voa (625)
4916	GC 13-952	1/30/13	1337		✓	W	5	5																								Voa (625)
4917	6 th 13-953	1/30/13	1453		✓	W	6	6																								Voa (625)

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by:

Approved by:

TST: hrs

Comments:

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



P.P/1st Qtr

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004902

Date Collected: 01/29/13 08:01
Collected By: CLIENT


Sample Desc: Final, 13-902 (Composite, Quarterly Priority Pollutants)

Date Received: 01/30/13 15:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	2.72	mg/L	.25	5	SM 4500P-E	02/01	06:55	ALD
INORGANIC								
TOTAL								
Antimony, Total	<.005	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Arsenic, Total	0.002	mg/L	.001	1	EPA 200.8	02/01	12:47	RLS
Beryllium, Total	<.005	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Chromium, Total	0.005	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Copper, Total	0.014	mg/L	.01	1	EPA 200.8	02/01	12:47	RLS
Lead, Total	<.01	mg/L	.01	1	EPA 200.7	02/06	13:29	RLS
Mercury, Total	<.0001	mg/L	.0001	1	EPA 245.1	02/04	14:58	JXS
Molybdenum, Total	0.01	mg/L	.01	1	EPA 200.8	02/01	12:47	RLS
Nickel, Total	0.008	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Selenium, Total	<.002	mg/L	.002	1	EPA 200.9	01/31	13:21	RLS
Silver, Total	<.005	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Thallium, Total	<.001	mg/L	.001	1	EPA 200.8	02/07	12:58	RLS
Zinc, Total	0.056	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
ORGANIC								
ACID COMPOUNDS								
2,4,6-Trichlorophenol	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
2,4-Dichlorophenol	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
2,4-Dimethylphenol	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
2,4-Dinitrophenol	<50	ug/L	50	1	EPA 625	02/01	15:30	MEB
2-Chlorophenol	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
2-Nitrophenol	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
4,6-Dinitro-o-cresol	<50	ug/L	50	1	EPA 625	02/01	15:30	MEB
4-Chloro-3-methylphenol	<20	ug/L	20	1	EPA 625	02/01	15:30	MEB
4-Nitrophenol	<50	ug/L	50	1	EPA 625	02/01	15:30	MEB

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAP accreditations for various drinking water, wastewater and solid & chemical materials analytes.



ACIL Seal of Excellence



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004902

Date Collected: 01/29/13 08:01
Collected By: CLIENT

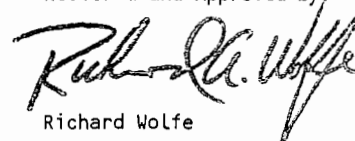
Sample Desc: Final, 13-902 (Composite, Quarterly Priority Pollutants)

Date Received: 01/30/13 15:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Pentachlorophenol	<50	ug/l	50	1	EPA 625	02/01	15:30	MEB
Phenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
BASE NEUTRALS								
1,2,4-Trichlorobenzene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
1,2-Diphenylhydrazine (as Azobenzene)	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2,3,7,8-Tetrachlorodibenzodioxin	see comment	ug/l	40	1	EPA 625	02/01	15:30	MEB
2,4-Dinitrotoluene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2,6-Dinitrotoluene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2-Chloronaphthalene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
3,3'-Dichlorobenzidine	<20	ug/l	20	1	EPA 625	02/01	15:30	MEB
3,4-Benzofluoranthene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
4-Bromophenyl phenyl ether	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
4-Chlorophenyl phenyl ether	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Acenaphthene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Acenaphthylene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Anthracene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Benzidine	<20	ug/l	20	1	EPA 625	02/01	15:30	MEB
Benzo(a)anthracene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Benzo(a)pyrene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Benzo(ghi)perylene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Benzo(k)fluoranthene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Bis(2-chloroethoxy)methane	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Bis(2-Chloroethyl) ether	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Bis(2-Chloroisopropyl) ether	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Bis(2-Ethylhexyl) phthalate	8	ug/l	5	2	EPA 625	02/01	15:30	MEB
Butyl benzyl phthalate	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Chrysene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Di-n-butyl phthalate	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Di-n-octyl phthalate	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Dibenz(a,h)anthracene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004902

Date Collected: 01/29/13 08:01
Collected By: CLIENT

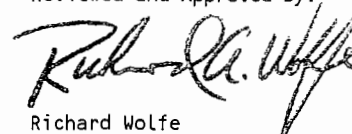
Sample Desc: Final, 13-902 (Composite, Quarterly Priority Pollutants)

Date Received: 01/30/13 15:45

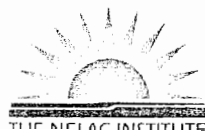
	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Diethyl phthalate	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Dimethyl phthalate	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Fluoranthrene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Fluorene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Hexachlorobenzene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Hexachlorobutadiene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Hexachlorocyclopentadiene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Hexachloroethane	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Indeno(1,2,3-cd)pyrene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Isophorone	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Library Search, Semivolatiles	see comment	ug/L	40	1	EPA 625	02/01	15:30	MEB
N-Nitrosodi-n-propylamine	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
N-Nitrosodimethylamine	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
N-Nitrosodiphenylamine	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Naphthalene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Nitrobenzene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Phenanthrene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
Pyrene	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
EXTRACTION								
EPA 608 Extraction	Complete		0	0	EPA 608	02/01	09:00	MCM
EPA 625 Extraction	Complete		0	0	EPA 625	01/31	08:00	JLV
PCBS								
PCB-1016	<5	ug/L	5	1	EPA 608	02/02	04:40	TWH
PCB-1221	<5	ug/L	5	1	EPA 608	02/02	04:40	TWH
PCB-1232	<5	ug/L	5	1	EPA 608	02/02	04:40	TWH
PCB-1242	<5	ug/L	5	1	EPA 608	02/02	04:40	TWH
PCB-1248	<5	ug/L	5	1	EPA 608	02/02	04:40	TWH
PCB-1254	<5	ug/L	5	1	EPA 608	02/02	04:40	TWH
PCB-1260	<5	ug/L	5	1	EPA 608	02/02	04:40	TWH
PESTICIDES								

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAP accreditations for various drinking water, wastewater and solid & chemical materials analytes.



ACIL Seal of Excellence



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004902

Date Collected: 01/29/13 08:01
Collected By: CLIENT

Sample Desc: Final, 13-902 (Composite, Quarterly Priority Pollutants)

Date Received: 01/30/13 15:45


	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
4,4'-DDD	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
4,4'-DDE	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
4,4'-DDT	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Aldrin	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
alpha-BHC	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
beta-BHC	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Chlordane	<1	ug/l	1	1	EPA 608	02/02	04:40	TWH
delta-BHC	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Dieldrin	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endosulfan I	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endosulfan II	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endosulfan sulfate	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endrin	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endrin aldehyde	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Heptachlor	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Heptachlor Epoxide	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Lindane (Gamma BHC)	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Toxaphene	<10	ug/l	10	1	EPA 608	02/02	04:40	TWH

COMMENTS

- 01 The continuing calibration verification was above acceptable limits, however beryllium was not detected at or above the laboratory reporting limit.

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004902

Date Collected: 01/29/13 08:01
Collected By: CLIENT

Sample Desc: Final, 13-902 (Composite, Quarterly Priority Pollutants)

Date Received: 01/30/13 15:45

Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
--------	------	---------------	------------------	-----------	--------------	--------------	---------

- 02 One or more semi-volatile compounds had high recovery in the CCV but none of these compounds were detected in this sample above the laboratory's reporting limit.
- 03 The semi-volatile extract was analyzed for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. There was no indication of the characteristic ion in the extract.
- 04 The semi-volatile organic compound library search did not detect any compounds above the concentration of the internal standards.
- 05 The epa 625 method matrix spike was low for several compounds indicating possible sample matrix interference.
- 06 For EPA 608 the CCV had high 4,4'-DDD and Endosulfan II recoveries, and low Heptachlor, 4,4'-DDT, Methoxychlor, Endrin ketone, and Toxaphene recoveries.

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAP accreditations for various drinking water wastewater and solid & chemical materials analytes



ACIL Seal of Excellence



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004903

Date Collected: 01/30/13 08:10
Collected By: CLIENT

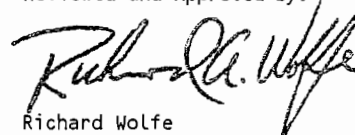
Sample Desc: Final, 13-920 (Grab, Quarterly Priority Pollutants)

Date Received: 01/30/13 15:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	01/31	15:46	JCL
Cyanide, Total	0.006	mg/L	.004	1	10204001X	01/31	15:46	JCL
Phenols (4AAP)	0.042	mg/L	.01	1	EPA 420.4	01/31	12:13	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	<5	mg/L	5	1	EPA 1664	01/31	05:30	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	02/01	13:00	WXC

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

Page 1 of 1

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAP accreditations for various drinking water, wastewater and solid & chemical materials analytes.



ACIL Seal of Excellence



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004901

Date Collected: 01/30/13 08:10
Collected By: CLIENT

Sample Desc: FC (13-920, 13-942, 13-947, 13-949 - Lab Composite of 4 Grabs, Quarterly
Priority Pollutants)

Date Received: 01/30/13 15:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,1,2,2-Tetrachloroethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,1,2-Trichloroethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,1-Dichloroethylene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,2-Dichloroethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,2-Dichloropropane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,3-Dichlorobenzene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,4-Dichlorobenzene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
2-Chloroethylvinyl Ether	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Acrolein	<50	ug/L	50	1	EPA 624	01/31	09:23	GXF
Acrylonitrile	<50	ug/L	50	1	EPA 624	01/31	09:23	GXF
Benzene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Bromomethane (Methyl Bromide)	<10	ug/L	10	1	EPA 624	01/31	09:23	GXF
Carbon Tetrachloride	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Chloroethane	<10	ug/L	10	1	EPA 624	01/31	09:23	GXF
Chloroform	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	01/31	09:23	GXF
cis-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
cis-1,3-Dichloropropylene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Dichlorobromomethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Ethylbenzene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Library Search, Volatiles	see comment	ug/L	15	1	EPA 624	01/31	09:23	GXF
Methylene Chloride	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NFIAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.



ACIL Seal of Excellence



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004901

Date Collected: 01/30/13 08:10
Collected By: CLIENT

Sample Desc: FC (13-920, 13-942, 13-947, 13-949 - Lab Composite of 4 Grabs, Quarterly
Priority Pollutants)

Date Received: 01/30/13 15:45

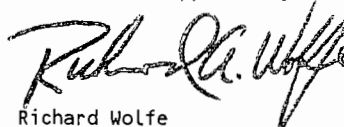
	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Tetrachloroethylene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Toluene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
trans-1,2-Dichloroethylene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
trans-1,3-Dichloropropylene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Trichloroethylene	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Trichlorofluoromethane	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF
Vinyl Chloride	<10	ug/l	10	1	EPA 624	01/31	09:23	GXF
Xylenes (Total)	<5	ug/l	5	1	EPA 624	01/31	09:23	GXF

COMMENTS

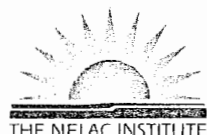
- 01 The volatile organic compound library search did not detect any compounds above the concentration of the internal standards.

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAP accreditations for various drinking water, wastewater and solid & chemical materials analytes



ACIL Seal of Excellence



M. J. Reider Associates, Inc.

107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly
(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Lab; Pink: Submitter

R 33775

Page ____ of ____

6. Report Type:

Routine

Standard QC

Data Package

7. Turnaround Time

Standard

RUSH: ____/____/____

1. Client (Company or Individual):

City of Reading

Address:

815 Washington St.

City:

Reading

State:

Pa

ZIP:

19601

Phone:

FAX:

2. Invoice To: (If different from above)

Lab #124

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #: Priority Pollutant / Analyte

P.O. No.:

5. Sampled By:

Matrix Code (for item 12)

Container Codes (for item 13)

Preservative Code (for item 14)

DW = Drinking Water

GW = Ground Water

WW = Waste Water

S = Soil

O = Other

2L = 2 Liter

L = Liter

500 = 500ml

250 = 250ml

125 = 125ml

40 = 40ml

V = VOA vial

G = Glass

P = Plastic

M = Micro

O = Other

A = Ascorbic Acid

C = HCl

N = HNO₃

S = H₂SO₄

P = H₃PO₄

H = NaOH

T = NaS₂O₃

E = EDTA

L = NH₄Cl

Z = Zinc Acetate

V = Ascorbic/HCl

O = Other

M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

Samples received on ice?

Sample Containers Intact?

VOC's Free of Headspace?

COC Seal Intact or attached?

Y N

Y N

Y N

Y N

Y N

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by: R

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

☐ NPDES

PWSID #

16.

17. SPECIAL INSTRUCTIONS/COMMENTS:

Metals: Ag, As, Be, Cd, Cr, Cu, Hg, Pb, Mo, Ni, Sb, Se, Ti, Zn

Composite VOA bottles

L/p L/p 500/p 500/g L/g V/40 L/g
S N #/A S C C -

13. Container: Size / Type

14. Preservative

15. Analyses Requested

Metals, Total phosphorous

625 (Semi-vol); 608 (PCB+Pest)

CN (Tot+Free), Phenols

Oil+Grease (Hem+SGTHEM), 624 (Vol)

Metals, Total Phosphorous

625 (Semi-vol); 608 (PCB+Pest)

CN (Tot+Free), Phenols

Oil+Grease (Hem+SGTHEM), 624 (Vol)

Voa (624)

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by:

Approved by:

TST hrs

Comments:

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



M. J. Reider Associates, Inc.

107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Lab; Pink: Submitter

R 33881

Page ____ of ____

6. Report Type:

☒ Routine

Standard QC

Data Package

7. Turnaround Time

☒ Standard

RUSH: ____/____/____

1. Client (Company or Individual):

City of Reading

Address:

815 Washington St
City: Reading State: Pa ZIP: 19601 Phone:

2. Invoice To: (if different from above)

Address:

City: State: ZIP: Phone:

3. Client Project Name / #:

Priority Pollutant/Quarterly Lab #124

5. Sampled By:

Matrix Code (for item 12)

Container Codes (for item 13)

Preservative Code (for item 14)

DW = Drinking Water
GW = Ground Water
WW = Waste Water
S = Soil
O = Other

2L = 2 Liter
L = Liler
500 = 500ml
250 = 250ml
125 = 125ml
40 = 40ml

V = VOA vial
G = Glass
P = Plastic
M = Micro
O = Other

A = Ascorbic Acid
C = HCl
N = HNO3
S = H2SO4
P = H3PO4
H = NaOH
T = NaS2O3
E = EDTA
L = NH4Cl
Z = Zinc Acetate
V = Ascorbic/HCl
O = Other
M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

Samples received on ice?

Sample Containers Intact?

VOC's Free of Headspace?

COC Seal Intact or attached?

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by:

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

PWSID #

☐ NPDES

MJRA
ID #

9. Sample
Description

10.

11.

12.

Date

Time

Composite

Grab

Matrix

16. Total # of Containers

Y/P 4/P 4/P 4/P 4/P 4/P 4/P
S N H/A S C C -
↓

13. Container: Size / Type

14. Preservative

15. Analyses Requested

4902	Final 13-902	1/29/13	801	X		W	6	1	1				4	Metals, Total phosphorous
4903	Final 13-920	1/30/13	810		X	W	10			2	1	2	135	625 (semi-vol) 608 (PCB+Pest)
4904	Raw 13-930	1-29-13	914	X		W	6	1	1				4	Cu (Total + Free), Phenols, org (Hem + Sgt Hem), 624 (vol)
4905	Raw 13-929	1-30-13	905		X	W	10			2	1	2	5	Metals, Total phosphorous
4906	FC 13-942	1/30/13	1050		X	W	5						5	625 (semi-vol) 608 (PCB+Pest)

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by:

Approved by:

TST hrs

Comments:

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



M. J. Reider Associates, Inc.

107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly
(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Lab; Pink: Submitter

R 34267

Page 3 of 4

6. Report Type:

☒ Routine

☐ Standard QC

☐ Data Package

7. Turnaround Time

☒ Standard

RUSH: 1 / 1 / 1

1. Client (Company or Individual):

Address:

City:

State:

ZIP:

Phone:

FAX:

2. Invoice To: (if different from above)

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #:

4. P.O. No.:

5. Sampled By:

Matrix Code (for item 12)

Container Codes (for item 13)

Preservative Code (for item 14)

DW = Drinking Water
GW = Ground Water
WW = Waste Water
S = Soil
O = Other

2L = 2 Liter
L = Liter
500 = 500ml
250 = 250ml
125 = 125ml
40 = 40ml

V = VOA vial
G = Glass
P = Plastic
M = Micro
O = Other

A = Ascorbic Acid
C = HCl
N = HNO3
S = H2SO4
P = H3PO4
H = NaOH
T = NaS2O3
E = EDTA
L = NH4Cl
Z = Zinc Acetate
V = Ascorbic/HCl
O = Other
M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

Samples received on ice?

Sample Containers Intact?

VOC's Free of Headspace?

COC Seal Intact or attached?

N

N

N

Y

Y

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by: Yes

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

PWSID # _____

☐ NPDES

16.

17. SPECIAL INSTRUCTIONS/COMMENTS:

MJRA

ID.#

9. Sample

Description

10.

11.

12.

Date

Time

Composite

Grab

Matrix

Total # of Containers

13. Container: Size / Type

14. Preservative

15. Analyses Requested

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by

Approved by

TST hrs

Comments

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



M. J. Reider Associates, Inc.

107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Lab; Pink: Submitter

R 33777

Page 3 of 4

6. Report Type:

☒ Routine

☐ Standard QC

☐ Data Package

7. Turnaround Time

☒ Standard

RUSH: 1 / 1 / 1

1. Client (Company or Individual):

City of Reading

Address:

City:

Reading

State:

Pa

ZIP: 19601

Phone:

2. Invoice To: (If different from above)

Address:

City:

State:

ZIP:

Phone:

3. Client Project Name / #:

Priority Pollutants / Quarterly Lab #124

5. Sampled By:

Matrix Code (for item 12)

Container Codes (for item 13)

Preservative Code (for item 14)

DW = Drinking Water

GW = Ground Water

WW = Waste Water

S = Soil

O = Other

2L = 2 Liter

L = Liter

500 = 500ml

250 = 250ml

125 = 125ml

40 = 40ml

V = VOA vial

G = Glass

P = Plastic

M = Micro

O = Other

A = Ascorbic Acid

C = HCl

N = HNO3

S = H2SO4

P = H3PO4

H = NaOH

T = Na2S2O3

E = EDTA

L = NH4Cl

Z = Zinc Acetate

V = Ascorbic/HCl

O = Other

M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

Samples received on ice?

Sample Containers Intact?

VOC's Free of Headspace?

COC Seal Intact or attached?

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by:

17. SPECIAL INSTRUCTIONS/COMMENTS:

Composite VOA Bottles

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

PWSID #

☐ NPDES

16.

Total # of Containers

MJRA

ID #

9. Sample

Description

10.

Date

Time

11.

Composite

12.

Grab

13.

Matrix

14.

Analyses Requested

4909

GC 13-944

1/30/13

1049

✓

W

5

5

Voac (675)

4910

6th 13-945

1/30/13

1103

✓

W

5

5

Voac (675)

4911

FC 13-947

1/30/13

1319

✓

W

5

5

Voac (675)

4912

RC 13-948

1/30/13

1324

✓

W

5

5

Voac (675)

4913

FC 13-949

1/30/13

1458

✓

W

6

6

Voac (675)

4914

RC 13-950

1/30/13

1505

✓

W

6

6

Voac (675)

4915

6th 13-951

1/30/13

1350

✓

W

5

5

Voac (675)

4916

GC 13-952

1/30/13

1337

✓

W

5

5

Voac (675)

4917

6th 13-953

1/30/13

1453

✓

W

6

6

Voac (675)

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by:

Approved by:

TST hrs

Comments:

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



P.P. / 1st Qtr

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004904

Date Collected: 01/29/13 09:14
Collected By: CLIENT

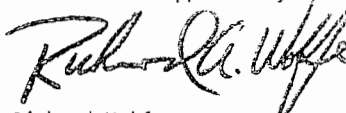
Sample Desc: Raw, 13-930 (Composite, Quarterly Priority Pollutants)

Date Received: 01/30/13 15:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	7.2	mg/L	.5	10	SM 4500P-E	02/01	06:55	ALD
INORGANIC								
TOTAL								
Antimony, Total	<.005	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Arsenic, Total	0.002	mg/L	.001	1	EPA 200.8	02/01	12:47	RLS
Beryllium, Total	<.005	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Chromium, Total	0.014	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Copper, Total	0.052	mg/L	.01	1	EPA 200.8	02/01	12:47	RLS
Lead, Total	0.02	mg/L	.01	1	EPA 200.7	02/06	13:29	RLS
Mercury, Total	0.0002	mg/L	.0001	1	EPA 245.1	02/04	14:58	JXS
Molybdenum, Total	0.02	mg/L	.01	1	EPA 200.8	02/01	12:47	RLS
Nickel, Total	0.020	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Selenium, Total	<.002	mg/L	.002	1	EPA 200.9	02/05	16:00	RLS
Silver, Total	<.005	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
Thallium, Total	<.001	mg/L	.001	1	EPA 200.8	02/07	12:58	RLS
Zinc, Total	0.188	mg/L	.005	1	EPA 200.8	02/01	12:47	RLS
ORGANIC								
ACID COMPOUNDS								
2,4,6-Trichlorophenol	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
2,4-Dichlorophenol	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
2,4-Dimethylphenol	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
2,4-Dinitrophenol	<50	ug/L	50	1	EPA 625	02/01	15:30	MEB
2-Chlorophenol	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
2-Nitrophenol	<10	ug/L	10	1	EPA 625	02/01	15:30	MEB
4,6-Dinitro-o-cresol	<50	ug/L	50	1	EPA 625	02/01	15:30	MEB
4-Chloro-3-methylphenol	<20	ug/L	20	1	EPA 625	02/01	15:30	MEB
4-Nitrophenol	<50	ug/L	50	1	EPA 625	02/01	15:30	MEB

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAP accreditations for various drinking water, wastewater and solid & chemical materials analytes.



ACIL Seal of Excellence



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004904

Date Collected: 01/29/13 09:14
Collected By: CLIENT

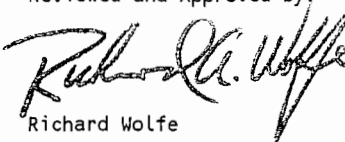
Sample Desc: Raw, 13-930 (Composite, Quarterly Priority Pollutants)

Date Received: 01/30/13 15:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Pentachlorophenol	<50	ug/l	50	1	EPA 625	02/01	15:30	MEB
Phenol	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
BASE NEUTRALS								
1,2,4-Trichlorobenzene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
1,2-Diphenylhydrazine (as Azobenzene)	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2,3,7,8-Tetrachlorodibenzodioxin	see comment	ug/l	40	1	EPA 625	02/01	15:30	MEB
2,4-Dinitrotoluene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2,6-Dinitrotoluene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
2-Chloronaphthalene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
3,3'-Dichlorobenzidine	<20	ug/l	20	1	EPA 625	02/01	15:30	MEB
3,4-Benzofluoranthene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
4-Bromophenyl phenyl ether	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
4-Chlorophenyl phenyl ether	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Acenaphthene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Acenaphthylene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Anthracene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Benzidine	<20	ug/l	20	1	EPA 625	02/01	15:30	MEB
Benzo(a)anthracene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Benzo(a)pyrene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Benzo(ghi)perylene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Benzo(k)fluoranthene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Bis(2-chloroethoxy)methane	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Bis(2-Chloroethyl) ether	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Bis(2-Chloroisopropyl) ether	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Bis(2-Ethylhexyl) phthalate	<5	ug/l	5	2	EPA 625	02/01	15:30	MEB
Butyl benzyl phthalate	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Chrysene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Di-n-butyl phthalate	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Di-n-octyl phthalate	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Dibenz(a,h)anthracene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAP accreditations for various drinking water, wastewater and solid & chemical materials analytes.



ACIL Seal of Excellence



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004904

Date Collected: 01/29/13 09:14
Collected By: CLIENT

Sample Desc: Raw, 13-930 (Composite, Quarterly Priority Pollutants)

Date Received: 01/30/13 15:45

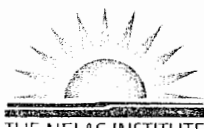
	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Diethyl phthalate	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Dimethyl phthalate	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Fluoranthrene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Fluorene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Hexachlorobenzene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Hexachlorobutadiene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Hexachlorocyclopentadiene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Hexachloroethane	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Indeno(1,2,3-cd)pyrene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Isophorone	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Library Search, Semivolatiles	see comment	ug/l	40	1	EPA 625	02/01	15:30	MEB
N-Nitrosodi-n-propylamine	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
N-Nitrosodimethylamine	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
N-Nitrosodiphenylamine	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Naphthalene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Nitrobenzene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Phenanthrene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
Pyrene	<10	ug/l	10	1	EPA 625	02/01	15:30	MEB
EXTRACTION								
EPA 608 Extraction	Complete		0	0	EPA 608	02/01	09:00	MCM
EPA 625 Extraction	Complete		0	0	EPA 625	01/31	08:00	JLV
PCBS								
PCB-1016	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
PCB-1221	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
PCB-1232	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
PCB-1242	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
PCB-1248	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
PCB-1254	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
PCB-1260	<5	ug/l	5	1	EPA 608	02/02	04:40	TWH
PESTICIDES								

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.



ACIL Seal of Excellence



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004904

Date Collected: 01/29/13 09:14
Collected By: CLIENT

Sample Desc: Raw, 13-930 (Composite, Quarterly Priority Pollutants)

Date Received: 01/30/13 15:45

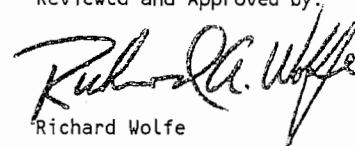
	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
4,4'-DDD	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
4,4'-DDE	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
4,4'-DDT	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Aldrin	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
alpha-BHC	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
beta-BHC	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Chlordane	<1	ug/l	1	1	EPA 608	02/02	04:40	TWH
delta-BHC	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Dieldrin	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endosulfan I	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endosulfan II	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endosulfan sulfate	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endrin	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Endrin aldehyde	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Heptachlor	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Heptachlor Epoxide	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Lindane (Gamma BHC)	<.5	ug/l	.5	1	EPA 608	02/02	04:40	TWH
Toxaphene	<10	ug/l	10	1	EPA 608	02/02	04:40	TWH

COMMENTS

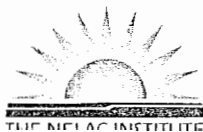
- 01 The continuing calibration verification was above acceptable limits, however beryllium was not detected at or above the laboratory reporting limit.

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current NELAP accreditations for various drinking water, wastewater and solid & chemical materials analytes



ACIL Seal of Excellence



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004904

Date Collected: 01/29/13 09:14
Collected By: CLIENT

Sample Desc: Raw, 13-930 (Composite, Quarterly Priority Pollutants)

Date Received: 01/30/13 15:45

Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
--------	------	---------------	------------------	-----------	--------------	--------------	---------

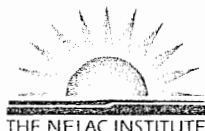
- 02 One or more semi-volatile compounds had high recovery in the CCV but none of these compounds were detected in this sample above the laboratory's reporting limit.
- 03 The semi-volatile extract was analyzed for 2,3,7,8-Tetrachlorodibenzo-p-dioxin. There was no indication of the characteristic ion in the extract.
- 04 The svoc library search tentatively identified: 2-Butoxy-Ethanol, several Decanoic Acids, Cyclohexadecane, two Decenoic acids, E-15-Heptadecenal, Cholestanol.
- 05 The svoc library also tentatively identified: 17-(1,5-Dimethylhexyl)-10,13-dimethyl, 2,6,10,14,18,22-Tetracosahexaene, (Z,Z)-9,12-Octadecadienoic Acid.
- 06 For EPA 608 the CCV had high 4,4'-DDD and Endosulfan II recoveries, and Low Heptachlor, 4,4'-DDT, Methoxychlor, Endrin ketone, and Toxaphene recoveries.

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611

PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004905

Date Collected: 01/30/13 09:05
Collected By: CLIENT

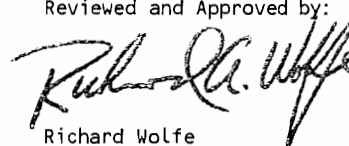
Sample Desc: Raw, 13-929 (Grab, Quarterly Priority Pollutants)

Date Received: 01/30/13 15:45

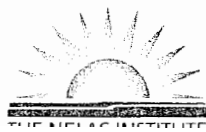
	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	01/31	15:46	JCL
Cyanide, Total	0.006	mg/L	.004	1	10204001X	01/31	15:46	JCL
Phenols (4AAP)	0.151	mg/L	.01	1	EPA 420.4	01/31	12:13	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	14	mg/L	5	1	EPA 1664	01/31	05:30	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	02/01	13:00	WXC

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAP accreditation for various drinking water, wastewater and solid & chemical materials analytes.



ACIL Seal of Excellence



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004912

Date Collected: 01/30/13 09:05
Collected By: CLIENT

Sample Desc: RC (13-929, 13-948, 13-950, 13-943 - Lab Composite of 4 Grabs, Quarterly
Priority Pollutants)

Date Received: 01/30/13 15:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
VOLATILES								
1,1,1-Trichloroethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,1,2,2-Tetrachloroethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,1,2-Trichloroethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,1-Dichloroethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,1-Dichloroethylene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,2-Dichlorobenzene (o-Dichlorobenzene)	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,2-Dichloroethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,2-Dichloropropane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,3-Dichlorobenzene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
1,4-Dichlorobenzene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
2-Chloroethylvinyl Ether	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Acrolein	<50	ug/L	50	1	EPA 624	01/31	09:23	GXF
Acrylonitrile	<50	ug/L	50	1	EPA 624	01/31	09:23	GXF
Benzene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Bromoform (Tribromomethane)	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Bromomethane (Methyl Bromide)	<10	ug/L	10	1	EPA 624	01/31	09:23	GXF
Carbon Tetrachloride	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Chlorobenzene (Monochlorobenzene)	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Chlorodibromomethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Chloroethane	<10	ug/L	10	1	EPA 624	01/31	09:23	GXF
Chloroform	5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Chloromethane (Methyl Chloride)	<10	ug/L	10	1	EPA 624	01/31	09:23	GXF
cis-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
cis-1,3-Dichloropropylene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Dichlorobromomethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Ethylbenzene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Library Search, Volatiles	see comment	ug/L	15	1	EPA 624	01/31	09:23	GXF
Methylene Chloride	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditation for various drinking water, wastewater and solid & chemical materials analytes





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/12/13
Lab ID: 124-13-0004912

Date Collected: 01/30/13 09:05
Collected By: CLIENT

Sample Desc: RC (13-929, 13-948, 13-950, 13-943 - Lab Composite of 4 Grabs, Quarterly
Priority Pollutants)

Date Received: 01/30/13 15:45

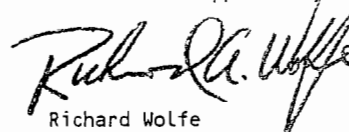
	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Tetrachloroethylene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Toluene	6	ug/L	5	1	EPA 624	01/31	09:23	GXF
trans-1,2-Dichloroethylene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
trans-1,3-Dichloropropylene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Trichloroethylene	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Trichlorofluoromethane	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF
Vinyl Chloride	<10	ug/L	10	1	EPA 624	01/31	09:23	GXF
Xylenes (Total)	<5	ug/L	5	1	EPA 624	01/31	09:23	GXF

COMMENTS

01 The VOC library search tentatively identified 1-Propanol, 2-Propanol, Acetone, and 5 unknown hydrocarbons.

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAP accreditations for various drinking water, wastewater and solid & chemical materials analytes



ACIL Seal of Excellence



M. J. Reider Associates, Inc.

107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Lab; Pink: Submitter

R 33775

Page ____ of ____

6. Report Type:

☐ Routine

☐ Standard QC

☐ Data Package

7. Turnaround Time

☐ Standard

☐ RUSH: ____/____/____

1. Client (Company or Individual):

City of Reading

Address: 815 Washington St.

City: Reading State: Pa ZIP: 19601 Phone: FAX:

2. Invoice To: (If different from above)

Lab #124

Address:

City: State: ZIP: Phone: FAX:

3. Client Project Name / #: Priority Pollutant / Analyte

P.O. No.:

5. Sampled By:

Matrix Code (for item 12)

DW = Drinking Water
GW = Ground Water
WW = Waste Water
S = Soil
O = Other

Container Codes (for item 13)

SIZE TYPE
2L = 2 Liter V = VOA vial
L = Liter G = Glass
500 = 500ml P = Plastic
250 = 250ml M = Micro
125 = 125ml O = Other
40 = 40ml

Preservative Code (for item 14)

A = Ascorbic Acid T = NaS2O3
C = HCl E = EDTA
N = HNO3 L = NH4Cl
S = H2SO4 Z = Zinc Acetate
P = H3PO4 V = Ascorbic/HCl
H = NaOH O = Other
M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

Samples received on ice?

Sample Containers Intact?

VOC's Free of Headspace?

COC Seal Intact or attached?

Y N
Y N
Y N
Y N
Y N

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by: RJD

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

PWSID #

☐ NPDES

17. SPECIAL INSTRUCTIONS/COMMENTS:

Metals: Ag, As, Be, Cd, Cr, Cu, Hg, Pb, Mo, Ni, Sb, Se, Ti, Zn

Composite VOA bottles

L/P L/P 500/P 500/G L/G V/40 L/G
S N #/A S C C -

13. Container: Size / Type

←

14. Preservative

←

15. Analyses Requested

Metals, Total phosphorous

625 (Semi-vol); 608 (PCB+Pest)

CN (Tot+Free), Phenols

Oil+Grease (HM+SGTHEM), 624 (Vol)

Metals, Total Phosphorous

625 (Semi-vol); 608 (PCB+Pest)

CN (Tot+Free), Phenols

Oil+Grease (HM+SGTHEM), 624 (Vol)

Voa (624)

MJRA
ID #

9. Sample

Description

10.

Date Time

11.

Composite

Grab

12.

Matrix

Total # of Containers

4897

6th 13-923

1/29/13 840

X

W

1

1

4

4898

6th 13-924

1/29/13 835

X

W

2

1

2

5

4899

GC 13-921

1/29/13 813

X

W

1

1

4900

GC 13-922

1/29/13 808

X

W

2

1

2

5

4901

FC 13-943

1-30-13 1100

X

W

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by: A

Approved by:

TST: hrs

Comments:

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



M. J. Reider Associates, Inc.

107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Lab; Pink: Submitter

R 33881

Page ____ of ____

6. Report Type:

☒ Routine

☐ Standard QC

☐ Data Package

7. Turnaround Time

☒ Standard

RUSH: ____/____/____

1. Client (Company or Individual):

City of Reading

Address:

815 Washington St
Reading PA 19601

City:

State:

ZIP:

Phone:

FAX:

2. Invoice To: (if different from above)

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #:

Priority Pollutant / Quarterly Lab #124

5. Sampled By:

Matrix Code (for item 12)

DW = Drinking Water
GW = Ground Water
WW = Waste Water
S = Soil
O = Other

Container Codes (for item 13)

SIZE TYPE
2L = 2 Liter V = VOA vial
L = Liter G = Glass
500 = 500ml P = Plastic
250 = 250ml M = Micro
125 = 125ml O = Other
40 = 40ml

Preservative Code (for item 14)

A = Ascorbic Acid T = NaS2O3
C = HCl E = EDTA
N = HNO3 L = NH4Cl
S = H2SO4 Z = Zinc Acetate
P = H3PO4 V = Ascorbic/HCl
H = NaOH O = Other
M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C? ☒ Y ☒ N

Samples received on Ice? ☒ Y ☒ N

Sample Containers Intact? ☒ Y ☒ N

VOC's Free of Headspace? ☒ Y ☒ N

COC Seal Intact or attached? ☒ Y ☒ N

Samples Shipped or Hand Delivered

Method of Shipment: _____

Tracking #: _____

Cooler Return Fee: _____

ICE CHEST NUMBER: _____

Checked by: _____

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

PWSID # _____

☐ NPDES

17. SPECIAL INSTRUCTIONS/COMMENTS:

Metals As, As3, Be, Cd, Cr, Cu, Hg, Pb, Mn, Ni, Sb, Se, Ti, Zn

Composite VOA bottles

Y/P	L/P	500/P	500/G	7/6	7/40	7/6
S	N	H/A	S	C	C	-

13. Container: Size / Type

←

14. Preservative

←

15. Analyses Requested

Metals, Total phosphorus
625 (semi-vol), 608 (PCB+Pest.)
Cu (Total+Free), Phenols,
or G (Hem+SG+Hem) 624 (vol)
Metals, Total phosphorus
625 (semi-vol), 608 (PCB+Pest.)
Cu (total+free) phenols,
or G (Hem+SG+Hem) 624 (vol)
VOA (624)

MJRA
ID #

9. Sample

Description

10.

Date

Time

11.

Composite

Grab

12.

Matrix

16.

Total # of Containers

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by: _____

Approved by: _____

TST _____ hrs

Comments: _____

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



M. J. Reider Associates, Inc.

107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Lab; Pink: Submitter

R 34267

Page 3 of 4

6. Report Type:

☒ Routine

☐ Standard QC

☐ Data Package

7. Turnaround Time

☒ Standard

RUSH: ☐ ☐ ☐

1. Client (Company or Individual):

City of Reading

Address:

815 Washington St

City:

Reading

State:

Pa

ZIP:

19601

Phone:

FAX:

2. Invoice To: (if different from above)

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #:

Priority Pollutants / Quarterly Lab #124

5. Sampled By:

Matrix Code (for item 12)

Container Codes (for item 13)

Preservative Code (for item 14)

DW = Drinking Water

2L = 2 Liter

V = VOA vial

A = Ascorbic Acid

T = NaS2O3

C = HCl

E = EDTA

N = HNO3

L = NH4Cl

S = H2SO4

Z = Zinc Acetate

P = H3PO4

V = Ascorbic/HCl

H = NaOH

O = Other

M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

☒

N

Samples received on ice?

☒

N

Sample Containers Intact?

☒

N

VOC's Free of Headspace?

Y

N

COC Seal Intact or attached?

Y

N

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by: JCS

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

PWSID #

☐ NPDES

MJRA

9. Sample

10.

11.

12.

ID #

Description

Date

Time

Composite

Grab

Matrix

4907

GC 13-954

1/30/13

1004

☒

W

6

6

13. Container: Size / Type

←

14. Preservative

←

15. Analyses Requested

VOA (675)

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by

Approved by TSI hrs

1/30/13

1535

1/30/13

1545

Comments

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



M. J. Reider Associates, Inc.

107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Lab; Pink: Submitter

R 33777

Page 3 of 4

6. Report Type:

☒ Routine

☐ Standard QC

☐ Data Package

7. Turnaround Time

☒ Standard

RUSH: 1/1

1. Client (Company or Individual):

Address:

City:

State:

ZIP:

Phone:

FAX:

2. Invoice To: (If different from above)

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #:

5. Sampled By:

Matrix Code (for item 12)

Container Codes (for item 13)

Preservative Code (for item 14)

DW = Drinking Water

GW = Ground Water

WW = Waste Water

S = Soil

O = Other

2L = 2 Liter

L = Liter

500 = 500ml

250 = 250ml

125 = 125ml

40 = 40ml

V = VOA vial

G = Glass

P = Plastic

M = Micro

O = Other

A = Ascorbic Acid

T = NaS2O3

C = HCl

E = EDTA

N = HNO3

L = NH4Cl

S = H2SO4

Z = Zinc Acetate

P = H3PO4

V = Ascorbic/HCl

H = NaOH

O = Other

M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

Samples received on ice?

Sample Containers Intact?

VOC's Free of Headspace?

COC Seal Intact or attached?

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #

Cooler Return Fee

ICE CHEST NUMBER

Checked by

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

PWSID #

☐ NPDES

16.

17. SPECIAL INSTRUCTIONS/COMMENTS:

Composite VOA Bottles

13. Container: Size / Type

14. Preservative

15. Analyses Requested

MJRA

ID #

9. Sample

Description

10.

Date

Time

11.

Composite

Grab

12.

Matrix

Total # of Containers

4909

GC 13-944

1/30/13

1049

✓

W

5

5

VOA (625)

4910

6th 13-945

1/30/13

1103

✓

W

5

5

VOA (625)

4911

FC 13-947

1/30/13

1319

✓

W

5

5

VOA (625)

4912

RC 13-948

1/30/13

1324

✓

W

5

5

VOA (625)

4913

FC 13-949

1/30/13

1458

✓

W

6

6

VOA (625)

4914

RC 13-950

1/30/13

1505

✓

W

6

6

VOA (625)

4915

6th 13-951

1/30/13

1350

✓

W

5

5

VOA (625)

4916

GC 13-952

1/30/13

1337

✓

W

5

5

VOA (625)

4917

6th 13-953

1/30/13

1453

✓

W

6

6

VOA (625)

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by

Approved by

TST hrs

Comments:

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



1st Qtr / Form 43 / PP

Attention: Amy L. Morriss-
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/21/13
Lab ID: 0124-13-0005866
Date Collected: 02/05/13 08:35
Collected By: Client
Date Received: 02/06/13 15:10

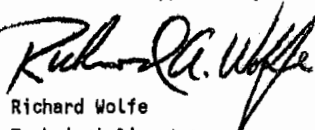
Sample Description: Beltpress 13-1135 (Form 43) Total Analysis

* Results Expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
CHEMISTRY							
COLORMETRIC							
Cyanide, Free	<2	* mg/kg	2	DEP 1	02/12	16:30	jcl
Cyanide, Reactive	<150	* mg/kg	150	SW846 7.3	02/11	15:18	jcl
Cyanide, Total	5	* mg/kg	2	10204001X	02/12	16:30	jcl
Phenols (4AAP)	118	* mg/kg	5.99	EPA 420.4	02/07	12:47	jcl
Phosphorus as P, Total	19600	* mg/kg	748	SM 4500P-E	02/07	10:30	ald
NITROGENS							
Nitrogen, Ammonia	11000	* mg/kg	600	EPA 350.1	02/14	13:10	jcl
OTHER							
Biochemical Oxygen Demand	80200	* mg/kg	1200	SM 5210B	02/07	16:00	emw
Paint Filter Liquids Test	NoFreeLiquids		0	SW846 9095	02/15	13:45	jxs
PHYSICAL							
Corrosivity	Not Corrosive		0	SW846 7.2	02/11	16:15	ald
Ignitability	Not Ignitable		0	SW846 1030	02/15	13:45	jxs
pH	7.94	su	2	SW846 9045	02/08	16:00	EMW
Reactivity	Not Reactive		0	SW846 7.3	02/20	08:12	raw
Visual Color	D.brown/black descrip.		0	VISUAL	02/19	15:30	jxs
RESIDUES							
Solids, Total Volatile	72.1	%	1	SM 2540G	02/08	16:30	rdd
Total Solids	16.7	%	1	SM 2540G	02/08	16:30	rdd
TITRATIONS							
Sulfide, Reactive	706	* mg/kg	299	SW846 7.3	02/08	10:30	jae
INORGANIC							
TOTAL							
Arsenic, Total	3	* mg/kg	0.6	EPA 200.9	02/12	15:36	rls
Barium, Total	306	* mg/kg	2.99	SW846 6010	02/11	11:04	lna
Cadmium, Total	3	* mg/kg	3	SW846 6010	02/11	11:04	lna
Chromium, Total	77.2	* mg/kg	2.99	SW846 6010	02/11	11:04	lna

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.
Reviewed and Approved By:


Richard Wolfe
Technical Director
Page 1 of 7

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611

PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.



ACIL Seal of Excellence



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/21/13
Lab ID: 0124-13-0005866

Date Collected: 02/05/13 08:35
Collected By: Client

Date Received: 02/06/13 15:10

Sample Description: Beltpress 13-1135 (Form 43) Total Analysis

* Results Expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
Copper, Total	446	* mg/kg	5.99	SW846 6010	02/11	11:04	lna
Lead, Total	120	* mg/kg	6.0	SW846 6010	02/11	11:04	lna
Mercury, Total	2	* mg/kg	1	SW846 7471	02/08	13:38	jxa
Molybdenum, Total	40	* mg/kg	6	SW846 6010	02/11	11:04	lna
Nickel, Total	32	* mg/kg	3.0	SW846 6010	02/11	11:04	lna
Selenium, Total	4	* mg/kg	1	EPA 200.9	02/13	05:00	rls
Silver, Total	6.0	* mg/kg	3.0	SW846 6010	02/13	12:56	lna
Zinc, Total	1130	* mg/kg	2.99	SW846 6010	02/11	11:04	lna
O&G/TPH							
GENERAL							
N-Hexane Extractable Material (O&G)	43110	* mg/kg	1497	EPA 1664	02/12	05:00	wxc
Silica Gel Treated N-Hexane Extract(TPH)	9671	* mg/kg	1497	EPA 1664	02/12	11:00	wxc
Total Petroleum Hydrocarbons	9671	* mg/kg	29.94	EPA 1664	02/12	11:00	wxc
ORGANIC							
ACID COMPOUNDS							
2,4,6-Trichlorophenol	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
2,4-Dichlorophenol	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
2,4-Dimethylphenol	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
2,4-Dinitrophenol	<29.9	* mg/kg	29.9	SW846 8270	02/18	16:07	meb
2-Chlorophenol	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
2-Nitrophenol	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
4,6-Dinitro-o-cresol	<29.9	* mg/kg	29.9	SW846 8270	02/18	16:07	meb
4-Chloro-3-methylphenol	<12.0	* mg/kg	12.0	SW846 8270	02/18	16:07	meb
4-Nitrophenol	<29.9	* mg/kg	29.9	SW846 8270	02/18	16:07	meb
Pentachlorophenol	<29.9	* mg/kg	29.9	SW846 8270	02/18	16:07	meb
Phenol	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
BASE NEUTRALS							
1,2,4-Trichlorobenzene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
1,2-Dichlorobenzene (o-Dichlorobenzene)	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb

Distribution of Report:
Amy L. Morriss - City of Reading WWT

M. J. Reider Associates, Inc.
Reviewed and Approved By:


Richard Wolfe

Technical Director

Page 2 of 7

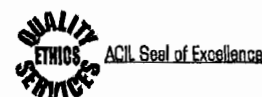
This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611

PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/21/13
Lab ID: 0124-13-0005866

Date Collected: 02/05/13 08:35
Collected By: Client

Date Received: 02/06/13 15:10

Sample Description: Beltpress 13-1135 (Form 43) Total Analysis

* Results Expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
1,2-Diphenylhydrazine (as Azobenzene)	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
1,3-Dichlorobenzene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
1,4-Dichlorobenzene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
2,4-Dinitrotoluene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
2,6-Dinitrotoluene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
2-Chloronaphthalene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
3,3'-Dichlorobenzidine	<12.0	* mg/kg	12.0	SW846 8270	02/18	16:07	meb
3,4-Benzofluoranthene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
4-Bromophenyl phenyl ether	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
4-Chlorophenyl phenyl ether	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Acenaphthene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Acenaphthylene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Anthracene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Benzidine	<12.0	* mg/kg	12.0	SW846 8270	02/18	16:07	meb
Benzo(a)anthracene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Benzo(a)pyrene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Benzo(ghi)perylene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Benzo(k)fluoranthene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Bis(2-chloroethoxy)methane	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Bis(2-Chloroethyl) ether	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Bis(2-Chloroisopropyl) ether	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Bis(2-Ethylhexyl) phthalate	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Butyl benzyl phthalate	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Chrysene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
D1-n-butyl phthalate	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Di-n-octyl phthalate	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Dibenz(a,h)anthracene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Diethyl phthalate	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Dimethyl phthalate	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.

Reviewed and Approved By:


Richard Wolfe
Technical Director

Page 3 of 7

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611

PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #08-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.



ACIL Seal of Excellence



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/21/13
Lab ID: 0124-13-0005866

Date Collected: 02/05/13 08:35
Collected By: Client

Date Received: 02/06/13 15:10

Sample Description: Beltpress 13-1135 (Form 43) Total Analysis

* Results Expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
Fluoranthrene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Fluorene	<5.99	* mg/kg	2.99	SW846 8270	02/18	16:07	meb
Hexachlorobenzene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Hexachlorobutadiene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Hexachlorocyclopentadiene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Hexachloroethane	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Indeno(1,2,3-cd)pyrene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Isophorone	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
N-Nitrosodi-n-propylamine	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
N-Nitrosodimethylamine	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
N-Nitrosodiphenylamine	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Naphthalene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Nitrobenzene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Phenanthrene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
Pyrene	<5.99	* mg/kg	5.99	SW846 8270	02/18	16:07	meb
EXTRACTION							
SW846 8081 Extraction	Complete		0	SW846 8081	02/15	08:00	jlw
SW846 8270 Extraction	Complete		0	SW846 8270	02/18	10:00	mcm
PCBS							
PCB-1016	<1.20	* ug/kg	1.20	SW846 8082	02/18	22:26	rpb
PCB-1221	<1.20	* mg/kg	1.20	SW846 8082	02/18	22:26	rpb
PCB-1232	<1.20	* mg/kg	1.20	SW846 8082	02/18	22:26	rpb
PCB-1242	<1.20	* mg/kg	1.20	SW846 8082	02/18	22:26	rpb
PCB-1248	<1.20	* mg/kg	1.20	SW846 8082	02/18	22:26	rpb
PCB-1254	<1.20	* mg/kg	1.20	SW846 8082	02/18	22:26	rpb
PCB-1260	<1.20	* mg/kg	1.20	SW846 8082	02/18	22:26	rpb
PESTICIDES							
4,4'-DDD	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb
4,4'-DDE	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.
Reviewed and Approved By:

Richard Wolfe

Richard Wolfe
Technical Director

Page 4 of 7

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611

PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/21/13
Lab ID: 0124-13-0005866
Date Collected: 02/05/13 08:35
Collected By: Client
Date Received: 02/06/13 15:10

Sample Description: Beltpress 13-1135 (Form 43) Total Analysis

* Results Expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
4,4'-DDT	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb
Aldrin	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb
alpha-BHC	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb
beta-BHC	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb
Chlordane	<2.99	* mg/kg	2.99	SW846 8081	02/18	23:02	rpb
delta-BHC	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb
Dieldrin	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb
Endosulfan I	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb
Endosulfan II	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb
Endosulfan sulfate	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb
Endrin	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb
Endrin aldehyde	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb
Heptachlor	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb
Heptachlor Epoxide	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb
Lindane (Gamma BHC)	<1.20	* mg/kg	1.20	SW846 8081	02/18	23:02	rpb
Toxaphene	<5.99	* mg/kg	5.99	SW846 8081	02/18	23:02	rpb
VOLATILES							
1,1,1-Trichloroethane	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
1,1,2,2-Tetrachloroethane	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
1,1,2-Trichloroethane	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
1,1-Dichloroethane	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
1,1-Dichloroethylene	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
1,2-Dichloroethane	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
1,2-Dichloropropane	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
2-Chloroethylvinyl Ether	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Acrolein	<1500	* ug/kg	1500	SW846 8260	02/12	10:12	gxf
Acrylonitrile	<1500	* ug/kg	1500	SW846 8260	02/12	10:12	gxf
Benzene	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Bromoform (Tribromomethane)	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf

Distribution of Report:
Amy L. Morriss - City of Reading WWP

M. J. Reider Associates, Inc.

Reviewed and Approved By:

Richard Wolfe

Richard Wolfe
Technical Director

Page 5 of 7

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611

PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.



ACIL Seal of Excellence



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/21/13
Lab ID: 0124-13-0005866

Date Collected: 02/05/13 08:35
Collected By: Client

Date Received: 02/06/13 15:10

Sample Description: Beltpress 13-1135 (Form 43) Total Analysis

* Results Expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
Bromomethane (Methyl Bromide)	<300	* ug/kg	300	SW846 8260	02/12	10:12	gxf
Carbon Tetrachloride	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Chlorobenzene (Monochlorobenzene)	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Chlorodibromomethane	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Chloroethane	<300	* ug/kg	300	SW846 8260	02/12	10:12	gxf
Chloroform	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Chloromethane (Methyl Chloride)	<300	* ug/kg	300	SW846 8260	02/12	10:12	gxf
cis-1,2-Dichloroethylene	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
cis-1,3-Dichloropropylene	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Dichlorobromomethane	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Ethylbenzene	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Library Search, Volatiles	see comment	ug/kg	30	SW846 8260	02/12	10:12	gxf
Methylene Chloride	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Tetrachloroethylene	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Toluene	170	* ug/kg	150	SW846 8260	02/12	10:12	gxf
trans-1,2-Dichloroethylene	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
trans-1,3-Dichloropropylene	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Trichloroethylene	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Trichlorofluoromethane	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf
Vinyl Chloride	<300	* ug/kg	300	SW846 8260	02/12	10:12	gxf
Xylenes (Total)	<150	* ug/kg	150	SW846 8260	02/12	10:12	gxf

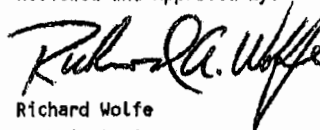
COMMENTS:

1 - The elevated reporting limits for the semi-volatiles was due to sample matrix interference.

2 - The SW846 8270 method QC was low for Benzidine.

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.
Reviewed and Approved By:


Richard Wolfe
Technical Director

Page 6 of 7

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611

PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.



ACIL Seal of Excellence



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/21/13
Lab ID: 0124-13-0005866
Date Collected: 02/05/13 08:35
Collected By: Client
Date Received: 02/06/13 15:10

Sample Description: Beltpress 13-1135 (Form 43) Total Analysis

* Results Expressed as Dry Weight

Results	Unit	Detection Limit	Test Procedure	Test Date	Test Time	Analyst
---------	------	--------------------	-------------------	--------------	--------------	---------

- 3 - For the SW846 8260 procedure, the matrix spike performed on the sample was low for Methyl tert butyl ether & Xylenes.
- 4 - The VOC library search tentatively identified Acetone, MEK, p-Isopropyltoluene, Naphthalene, Dimethyl sulfide, Undecane, Tridecane & 3 unknown aromatic compounds.

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.
Reviewed and Approved By:


Richard Wolfe
Technical Director

Page 7 of 7

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611

PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11830) Visit our website to view our current
NELAP accreditations for various drinking water, wastewater and solid & chemical materials analytes.



ACIL Seal of Excellence



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
o/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/21/13
Lab ID: 124-13-0005914

Date Collected: 02/05/13 08:35
Collected By: Client

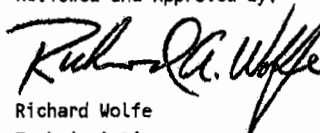
Sample Desc: Beltpress 13-1135 (Form 43) TCLP Leachate Analysis

Date Received: 02/06/13 15:10

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
LEACHATE								
pH, Extract Fluid	4.88	su	1	1	SW846 9040	02/08	08:35	JXS
pH, Leachate	5.31	su	1	1	SW846 9040	02/08	08:35	JXS
INORGANIC								
EXTRACTION								
TCLP Preparation	Complete		0	0	EPA 1311	02/08	08:35	JXS
TCLP								
Arsenic, TCLP	<.05	mg/L	.05	1	SW846 6010	02/11	11:04	LNA
Barium, TCLP	0.48	mg/L	.05	1	SW846 6010	02/11	11:04	LNA
Cadmium, TCLP	<.05	mg/L	.05	1	SW846 6010	02/11	11:04	LNA
Chromium, TCLP	<.05	mg/L	.05	1	SW846 6010	02/11	11:04	LNA
Copper, TCLP	<.05	mg/L	.05	1	SW846 6010	02/11	11:04	LNA
Iron, TCLP	6.3	mg/L	.2	1	SW846 6010	02/14	13:05	LNA
Lead, TCLP	<.15	mg/L	.15	1	SW846 6010	02/11	11:04	LNA
Mercury, TCLP	<.004	mg/L	.004	1	SW846 7470	02/13	13:02	JXS
Molybdenum, TCLP	<.1	mg/L	.1	1	SW846 6010	02/11	11:04	LNA
Nickel, TCLP	0.06	mg/L	.05	1	SW846 6010	02/11	11:04	LNA
Selenium, TCLP	0.05	mg/L	.05	1	SW846 6010	02/11	11:04	LNA
Silver, TCLP	<.05	mg/L	.05	1	SW846 6010	02/13	12:56	LNA
Zinc, TCLP	0.75	mg/L	.05	1	SW846 6010	02/11	11:04	LNA
ORGANIC								
ACID COMPOUNDS								
2,4,5-Trichlorophenol, TCLP	<50	ug/L	50	1	SW846 8270	02/12	12:55	MEB
2,4,6-Trichlorophenol, TCLP	<50	ug/L	50	1	SW846 8270	02/12	12:55	MEB
Cresols, TCLP	<50	ug/L	50	1	SW846 8270	02/12	12:55	MEB
Pentachlorophenol, TCLP	<250	ug/L	250	1	SW846 8270	02/12	12:55	MEB
BASE NEUTRALS								
2,4-Dinitrotoluene, TCLP	<50	ug/L	50	1	SW846 8270	02/12	12:55	MEB
Hexachlorobenzene, TCLP	<50	ug/L	50	1	SW846 8270	02/12	12:55	MEB

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611

PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current NELAP accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/21/13
Lab ID: 124-13-0005914

Date Collected: 02/05/13 08:35
Collected By: Client

Sample Desc: Beltpress 13-1135 (Form 43) TCLP Leachate Analysis

Date Received: 02/06/13 15:10

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Hexachlorobutadiene, TCLP	<50	ug/l	50	1	SW846 8270	02/12	12:55	MEB
Hexachloroethane, TCLP	<50	ug/l	50	1	SW846 8270	02/12	12:55	MEB
Nitrobenzene, TCLP	<50	ug/l	50	1	SW846 8270	02/12	12:55	MEB
Pyridine, TCLP	<50	ug/l	50	1	SW846 8270	02/12	12:55	MEB
EXTRACTION								
SM 6640B Extraction	Complete		0	0	SM 6640B	02/18	08:00	JLV
SW846 8081 Extraction	Complete		0	0	SW846 8081	02/14	09:00	NCH
SW846 8270 Extraction	Complete		0	0	SW846 8270	02/12	08:00	JLV
HERBICIDES								
2,4,5-TP Silvex, TCLP	<1	ug/l	1	1	SM 6640B	02/19	20:52	RPB
2,4-D, TCLP	<1	ug/l	1	1	SM 6640B	02/19	20:52	RPB
PESTICIDES								
Chlordane, TCLP	<5	ug/l	5	1	SW846 8081	02/15	03:07	RPB
Endrin, TCLP	<.5	ug/l	.5	1	SW846 8081	02/15	03:07	RPB
Heptachlor (and hydroxide), TCLP	<.5	ug/l	.5	1	SW846 8081	02/15	03:07	RPB
Heptachlor Epoxide, TCLP	<.5	ug/l	.5	1	SW846 8081	02/15	03:07	RPB
Lindane, TCLP	<.5	ug/l	.5	1	SW846 8081	02/15	03:07	RPB
Methoxychlor, TCLP	<.5	ug/l	.5	1	SW846 8081	02/15	03:07	RPB
Toxaphene, TCLP	<10	ug/l	10	1	SW846 8081	02/15	03:07	RPB
VOLATILES								
1,1-Dichloroethylene, ZHE TCLP	<50	ug/l	50	1	SW846 8260	02/08	09:27	GXF
1,2-Dichlorobenzene, ZHE TCLP	<50	ug/l	50	1	SW846 8260	02/08	09:27	GXF
1,2-Dichloroethane, ZHE TCLP	<50	ug/l	50	1	SW846 8260	02/08	09:27	GXF
1,4-Dichlorobenzene, TCLP	<50	ug/l	50	1	SW846 8260	02/08	09:27	GXF
Benzene, ZHE TCLP	<50	ug/l	50	1	SW846 8260	02/08	09:27	GXF
Carbon Tetrachloride, ZHE TCLP	<50	ug/l	50	1	SW846 8260	02/08	09:27	GXF
Chlorobenzene, ZHE TCLP	<50	ug/l	50	1	SW846 8260	02/08	09:27	GXF
Chloroform, ZHE TCLP	<50	ug/l	50	1	SW846 8260	02/08	09:27	GXF
Methyl Ethyl Ketone, ZHE TCLP	<200	ug/l	200	1	SW846 8260	02/08	09:27	GXF
Tetrachloroethylene, ZHE TCLP	<50	ug/l	50	1	SW846 8260	02/08	09:27	GXF

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611

PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/21/13
Lab ID: 124-13-0005914

Date Collected: 02/05/13 08:35
Collected By: Client

Date Received: 02/06/13 15:10

Sample Desc: Beltpress 13-1135 (Form 43) TCLP Leachate Analysis

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
Trichloroethylene, ZHE TCLP	<50	ug/l	50	1	SW846 8260	02/08	09:27	GXF
Vinyl Chloride, ZHE TCLP	<100	ug/l	100	1	SW846 8260	02/08	09:27	GXF

COMMENTS

- 01 The SW846 8270 method surrogate 2-Fluorophenol was high in the QC.

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

Page 3 of 3

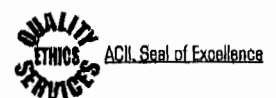
This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611

PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 02/21/13
Lab ID: 124-13-0005915

Date Collected: 02/05/13 08:35
Collected By: Client

Date Received: 02/06/13 15:10

Sample Desc: Beltpress 13-1135 (Form 43) ASTM Leachate Analysis

	Result	Unit	Rep Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
NITROGENS								
Nitrogen, Ammonia	64	mg/L	2	20	D6919-03	02/11	18:15	JCL
OTHER								
Chemical Oxygen Demand	168	mg/L	25	1	HACH8000	02/13	06:45	TMH
PHYSICAL								
pH	7.93	su	1	1	SM4500H-B	02/12	13:10	EMW
RESIDUES								
Solids, Total	302	mg/L	5	1	SM 2540B	02/11	17:15	RDD
INORGANIC								
EXTRACTION								
ASTM Preparation	Complete		0	0	ASTM	02/07	08:20	JXS
O&G/TPH								
GENERAL								
Oil and Grease	<10	mg/L	10	1	EPA 1664	02/12	06:00	WXC
Total Petroleum Hydrocarbons	<10	mg/kg	10	1	EPA 1664	02/12	11:00	WXC

COMMENTS

- 01 The duplicate analysis of this sample for total solids was outside the acceptable limit of 5% of their average weight.

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611

PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





M. J. Reider Associates, Inc.

107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Lab; Pink: Submitter

R 34275

Page 1 of 1

6. Report Type:

☒ Routine

Standard QC

Data Package

7. Turnaround Time

☒ Standard

RUSH: / /

1. Client (Company or Individual):

City of Reading

Address:

815 Washington St

City:

Reading

State:

PA

ZIP:

19601

Phone:

FAX:

2. Invoice To: (If different from above)

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #:

Lab 124

4. P.O. No.:

5. Sampled By:

Matrix Code (for item 12)

Container Codes (for item 13)

SIZE

TYPE

Preservative Code (for item 14)

A = Ascorbic Acid

T = NaS2O3

C = HCl

E = EDTA

N = HNO3

L = NH4Cl

S = H2SO4

Z = Zinc Acetate

P = H3PO4

V = Ascorbic/HCl

H = NaOH

O = Other

M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

☒

N

Method of Shipment:

Samples received on ice?

☒

N

Tracking #:

Sample Containers Intact?

☒

N

Cooler Return Fee:

VOC's Free of Headspace?

Y

N

ICE CHEST NUMBER:

COC Seal Intact or attached?

Y

N

Checked by:

KAL

17. SPECIAL INSTRUCTIONS/COMMENTS:

Report as dry wgt (mg/Kg)

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

PWSID #

☐ NPDES

16.

Total # of Containers

MJRA

9. Sample

Description

10.

11.

12.

Date

Time

Composite

Grab

Matrix

5865

FC 13-1130

2/5/13

803

☒

☒

1

1

13-1130

2/5/13

803

☒

☒

1

1

5866 Beltpress 13-1135

2/5/13

835

☒

☒

0

3

3

5914 - TCU

5915 - ASTM

18. RELINQUISHED BY

J. H. Jan

19. RECEIVED BY

[Signature]

DATE

2/6/13

2/6/13

TIME

5:10

9:00

15:10

Entered by:

[Signature]

Approved by:

TST

hrs

Comments:

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



2nd Otr

Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 05/29/13
Lab ID: 0124-13-0020059
Date Collected: 05/14/13 08:15
Collected By: Client
Date Received: 05/15/13 15:35

Sample Description: 13-4332, Belt Press Sludge (Composite, Quarterly)

* Results Expressed as Dry Weight

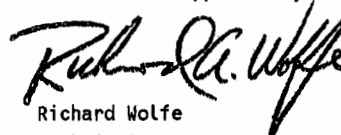
	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
CHEMISTRY							
COLORMETRIC							
Cyanide, Free	<2	* mg/kg	2	DEP 1	05/16	14:52	jcl
Cyanide, Total	2	* mg/kg	2	10204001X	05/16	14:52	jcl
Phenols (4AAP)	68.4	* mg/kg	5.18	EPA 420.4	05/16	12:01	jcl
Phosphorus as P, Total	15300	* mg/kg	648	SM 4500P-E	05/28	09:45	ald
PHYSICAL							
Visual Color	Dark Brown	Descript.	1	VISUAL	05/29	08:30	ald
RESIDUES							
Total Solids	19.3	%	.01	SM 2540G	05/17	17:30	rdd
INORGANIC							
TOTAL							
Chromium, Total	83.9	* mg/kg	2.59	SW846 6010	05/17	10:03	lna
Silver, Total	5.7	* mg/kg	2.6	SW846 6010	05/21	12:40	lna
O&G/TPH							
GENERAL							
N-Hexane Extractable Material (O&G)	9663	* mg/kg	1295	EPA 1664	05/20	05:00	wxc
Silica Gel Treated N-Hexane Extract(TPH)	2380	* mg/kg	1300	EPA 1664	05/20	11:00	wxc
ORGANIC							
BASE NEUTRALS							
Bis(2-Ethylhexyl) phthalate	7.36	* mg/kg	5.18	SW846 8270	05/21	15:21	meb
EXTRACTION							
SW846 8270 Extraction	Complete		0	SW846 8270	05/21	08:00	meb

COMMENTS:

1 - The elevated reporting limits for the semi-volatiles was due to sample matrix interference.

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.
Reviewed and Approved By:


Richard Wolfe

Technical Director

Page 1 of 1

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





M. J. Reider Associates, Inc.

107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Submitter

R 35991

Page ____ of ____

6. Report Type:

☒ Routine

☐ Standard QC

☐ Data Package

7. Turnaround Time

☒ Standard

☐ RUSH: ____/____/____

1. Client (Company or Individual):

City of Reading

Address:

815 Washington St
City: Reading State: Pa ZIP: 19601 Phone: FAX:

2. Invoice To: (If different from above)

Address:

City: State: ZIP: Phone: FAX:

3. Client Project Name / #: Quarterly # 124 Lab

4. P.O. No.:

5. Sampled By: CST

Matrix Code (for item 12)

DW = Drinking Water
GW = Ground Water
WW = Waste Water
S = Soil
O = Other Sludge

Container Codes (for item 13)

SIZE TYPE
2L = 2 Liter V = VOA vial
L = Liter G = Glass
500 = 500ml P = Plastic
250 = 250ml M = Micro
125 = 125ml O = Other
40 = 40ml

Preservative Code (for item 14)

A = Ascorbic Acid T = NaS2O3
C = HCl E = EDTA
N = HNO3 L = NH4Cl
S = H2SO4 Z = Zinc Acetate
P = H3PO4 V = Ascorbic/HCl
H = NaOH O = Other
M = Monochloroacetic Acid

17. SPECIAL INSTRUCTIONS/COMMENTS:

Report sludge as mg/kg dry wgt

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

PWSID #

124

☐ NPDES

a. Sample

Description

10.

Date

Time

11.

Composite

Grab

12.

Matrix

16.

Total # of Containers

13. Container: Size / Type

14. Preservative

15. Analyses Requested

Ag, Cr, (Total) Phosphorous
Cu (total + Free), phenol,
oil + Grease (Hex + Sg + Hex)
TS, Visual - Color,
8270 (Bis-2)

18. RELINQUISHED BY

MP

19. RECEIVED BY

Theresa L. Brady
for us

DATE

5/15/13

TIME

1525

5-15-13 1535

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

2nd Qtr

Date of Report: 05/01/13
Lab ID: 124-13-0017387

Date Collected: 04/24/13 07:53
Collected By: CLIENT


Sample Desc: FC 13-3704 Composite

Date Received: 04/26/13 14:50

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	3.8	mg/L	.5	10	SM 4500P-E	04/29	09:55	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	04/30	10:28	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	04/29	10:56	LNA
Chromium, Total	0.005	mg/L	.005	1	EPA 200.7	04/29	10:56	LNA
Copper, Total	0.017	mg/L	.01	1	EPA 200.7	04/29	10:56	LNA
Lead, Total	<.01	mg/L	.01	1	EPA 200.7	04/29	10:56	LNA
Mercury, Total	<.0001	mg/L	.0001	1	EPA 245.1	04/30	11:45	JXS
Molybdenum, Total	0.01	mg/L	.01	1	EPA 200.7	04/29	10:56	LNA
Nickel, Total	0.006	mg/L	.005	1	EPA 200.7	04/29	10:56	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	04/30	11:01	LNA
Zinc, Total	0.066	mg/L	.005	1	EPA 200.7	04/29	10:56	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	5.5	ug/L	5	1	EPA 625	04/30	17:54	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	04/29	08:00	MEB

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

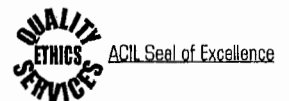
This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611

PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 05/01/13
Lab ID: 124-13-0017388

Date Collected: 04/25/13 07:57
Collected By: CLIENT

Sample Desc: FC 13-3705 Grab

Date Received: 04/26/13 14:50

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	04/29	15:03	JCL
Cyanide, Total	0.005	mg/L	.004	1	10204001X	04/29	15:03	JCL
Phenols (4AAP)	0.021	mg/L	.01	1	EPA 420.4	04/29	12:42	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	<5	mg/L	5	1	EPA 1664	04/29	06:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	04/29	12:00	WXC

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

Page 1 of 1

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



2nd Qtr

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 05/01/13
Lab ID: 124-13-0017381

Date Collected: 04/24/13 08:15
Collected By: CLIENT

Sample Desc: Raw Influent 13-3708 Composite

Date Received: 04/26/13 14:50

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	4.6	mg/L	.5	10	SM 4500P-E	04/29	09:55	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	04/30	10:28	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	04/29	10:56	LNA
Chromium, Total	0.008	mg/L	.005	1	EPA 200.7	04/29	10:56	LNA
Copper, Total	0.031	mg/L	.01	1	EPA 200.7	04/29	10:56	LNA
Lead, Total	<.01	mg/L	.01	1	EPA 200.7	04/29	10:56	LNA
Mercury, Total	<.0001	mg/L	.0001	1	EPA 245.1	04/30	11:45	JXS
Molybdenum, Total	0.02	mg/L	.01	1	EPA 200.7	04/29	10:56	LNA
Nickel, Total	<.005	mg/L	.005	1	EPA 200.7	04/29	10:56	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	04/30	11:01	LNA
Zinc, Total	0.130	mg/L	.005	1	EPA 200.7	04/29	10:56	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<5	ug/L	5	1	EPA 625	04/30	17:54	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	04/29	08:00	MEB

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 05/01/13
Lab ID: 124-13-0017382

Date Collected: 04/25/13 08:16
Collected By: CLIENT

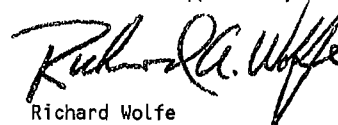
Sample Desc: Raw Influent 13-3713 Grab

Date Received: 04/26/13 14:50

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	04/29	15:03	JCL
Cyanide, Total	0.005	mg/L	.004	1	10204001X	04/29	15:03	JCL
Phenols (4AAP)	0.079	mg/L	.01	1	EPA 420.4	04/29	12:42	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	16	mg/L	5	1	EPA 1664	04/29	06:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	04/29	12:00	WXC

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

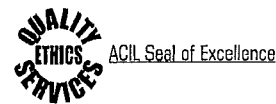
Page 1 of 1

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

2nd Qtr
Date of Report: 05/01/13
Lab ID: 124-13-0017383

Date Collected: 04/24/13 08:46
Collected By: CLIENT

Sample Desc: GC 13-3722 Composite

Date Received: 04/26/13 14:50

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	4.5	mg/L	.5	10	SM 4500P-E	04/29	09:55	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	04/30	10:28	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	04/29	10:56	LNA
Chromium, Total	<.005	mg/L	.005	1	EPA 200.7	04/29	10:56	LNA
Copper, Total	0.062	mg/L	.01	1	EPA 200.7	04/29	10:56	LNA
Lead, Total	<.01	mg/L	.01	1	EPA 200.7	04/29	10:56	LNA
Mercury, Total	<.0001	mg/L	.0001	1	EPA 245.1	04/30	11:45	JXS
Molybdenum, Total	<.01	mg/L	.01	1	EPA 200.7	04/29	10:56	LNA
Nickel, Total	<.005	mg/L	.005	1	EPA 200.7	04/29	10:56	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	04/30	11:01	LNA
Zinc, Total	0.135	mg/L	.005	1	EPA 200.7	04/29	10:56	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<5	ug/L	5	1	EPA 625	04/30	17:54	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	04/29	08:00	MEB

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 05/01/13
Lab ID: 124-13-0017384

Date Collected: 04/25/13 08:48
Collected By: CLIENT

Sample Desc: GC Grab

Date Received: 04/26/13 14:50

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	04/29	15:03	JCL
Cyanide, Total	<.004	mg/L	.004	1	10204001X	04/29	15:03	JCL
Phenols (4AAP)	0.059	mg/L	.01	1	EPA 420.4	04/29	12:42	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	13	mg/L	5	1	EPA 1664	04/29	06:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	04/29	12:00	WXC

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

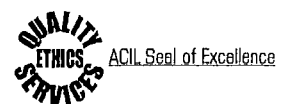
Page 1 of 1

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



2nd Qtr

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 05/01/13
Lab ID: 124-13-0017385

Date Collected: 04/24/13 09:06
Collected By: CLIENT

Sample Desc: 6th 13-3722 Composite

Date Received: 04/26/13 14:50

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	5.1	mg/L	.5	10	SM 4500P-E	04/29	09:55	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	04/30	10:28	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	04/29	10:56	LNA
Chromium, Total	0.016	mg/L	.005	1	EPA 200.7	04/29	10:56	LNA
Copper, Total	0.054	mg/L	.01	1	EPA 200.7	04/29	10:56	LNA
Lead, Total	0.01	mg/L	.01	1	EPA 200.7	04/29	10:56	LNA
Mercury, Total	0.0001	mg/L	.0001	1	EPA 245.1	04/30	11:45	JXS
Molybdenum, Total	0.02	mg/L	.01	1	EPA 200.7	04/29	10:56	LNA
Nickel, Total	0.007	mg/L	.005	1	EPA 200.7	04/29	10:56	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	04/30	11:01	LNA
Zinc, Total	0.242	mg/L	.005	1	EPA 200.7	04/29	10:56	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	6.3	ug/L	5	1	EPA 625	04/30	17:54	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	04/29	08:00	MEB

Distribution of Reports:

Reviewed and Approved by:

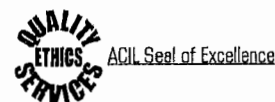

Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 05/01/13
Lab ID: 124-13-0017386

Date Collected: 04/25/13 09:08
Collected By: CLIENT

Sample Desc: 6th Grab

Date Received: 04/26/13 14:50

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	04/29	15:03	JCL
Cyanide, Total	<.004	mg/L	.004	1	10204001X	04/29	15:03	JCL
Phenols (4AAP)	0.088	mg/L	.01	1	EPA 420.4	04/29	12:42	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	52	mg/L	5	1	EPA 1664	04/29	06:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	04/29	12:00	WXC

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



3rd Atr

Attention: Amy L. Morris
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 07/31/13
Lab ID: 124-13-0031803

Date Collected: 07/23/13 08:37
Collected By: CLIENT

Sample Desc: RC 13-6665 (Quarterly, Composite)

Date Received: 07/24/13 15:15

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORIMETRIC								
Phosphorus as P, Total	5.1	mg/L	.5	10	SM 4500P-E	07/25	10:00	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	07/29	10:23	LNA
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	07/25	10:10	LNA
Chromium, Total	0.013	mg/L	.005	1	EPA 200.7	07/25	10:10	LNA
Copper, Total	0.070	mg/L	.01	1	EPA 200.7	07/25	10:10	LNA
Lead, Total	0.01	mg/L	.01	1	EPA 200.7	07/25	10:10	LNA
Mercury, Total	0.0003	mg/L	.0001	1	EPA 245.1	07/30	16:20	JXS
Molybdenum, Total	0.04	mg/L	.01	1	EPA 200.7	07/25	10:10	LNA
Nickel, Total	0.007	mg/L	.005	1	EPA 200.7	07/25	10:10	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	07/29	12:36	LNA
Zinc, Total	0.220	mg/L	.005	1	EPA 200.7	07/25	10:10	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<5	ug/L	5	1	EPA 625	07/26	16:50	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	07/25	09:00	JLV

Distribution of Reports:

Reviewed and Approved by:

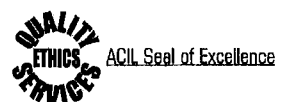
Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 07/31/13
Lab ID: 124-13-0031804

Date Collected: 07/24/13 08:40
Collected By: CLIENT

Sample Desc: RG 13-6668 (Quarterly, Grab)

Date Received: 07/24/13 15:15

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	0.005	mg/L	.004	1	DEP 1	07/29	15:17	JCL
Cyanide, Total	0.005	mg/L	.004	1	10204001X	07/29	15:17	JCL
Phenols (4AAP)	0.032	mg/L	.01	1	EPA 420.4	07/29	12:04	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	<5	mg/L	5	1	EPA 1664	07/25	05:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	07/26	07:00	WXC

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.



ACIL Seal of Excellence



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

3rd Air

Date of Report: 07/31/13
Lab ID: 124-13-0031805

Date Collected: 07/23/13 08:12
Collected By: CLIENT

Sample Desc: FC 13-6656 (Quarterly, Composite)

Date Received: 07/24/13 15:15

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	1.5	mg/L	.5	10	SM 4500P-E	07/25	10:00	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	07/29	10:23	LNA
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	07/25	10:10	LNA
Chromium, Total	<.005	mg/L	.005	1	EPA 200.7	07/25	10:10	LNA
Copper, Total	0.014	mg/L	.01	1	EPA 200.7	07/25	10:10	LNA
Lead, Total	<.01	mg/L	.01	1	EPA 200.7	07/25	10:10	LNA
Mercury, Total	<.0001	mg/L	.0001	1	EPA 245.1	07/30	16:20	JXS
Molybdenum, Total	0.03	mg/L	.01	1	EPA 200.7	07/25	10:10	LNA
Nickel, Total	<.005	mg/L	.005	1	EPA 200.7	07/25	10:10	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	07/29	12:36	LNA
Zinc, Total	0.044	mg/L	.005	1	EPA 200.7	07/25	10:10	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<5	ug/L	5	1	EPA 625	07/26	16:50	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	07/25	09:00	JLV

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 07/31/13
Lab ID: 124-13-0031806

Date Collected: 07/24/13 08:10
Collected By: CLIENT

Sample Desc: FG 13-6657 (Quarterly, Grab)

Date Received: 07/24/13 15:15

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	07/29	15:17	JCL
Cyanide, Total	0.005	mg/L	.004	1	10204001X	07/29	15:17	JCL
Phenols (4AAP)	0.021	mg/L	.01	1	EPA 420.4	07/29	12:04	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	<5	mg/L	5	1	EPA 1664	07/25	05:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	07/26	07:00	WXC

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

Page 1 of 1

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 07/31/13
Lab ID: 124-13-0031808

Date Collected: 07/23/13 08:00
Collected By: CLIENT

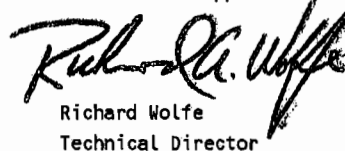
Sample Desc: GC 13-6658 (Composite)

Date Received: 07/24/13 15:15

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	5.4	ug/L	5	1	EPA 625	07/26	16:50	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	07/25	09:00	JLV

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

Page 1 of 1

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

3rd Qtr
Date of Report: 07/31/13
Lab ID: 124-13-0031812

Date Collected: 07/23/13 08:00
Collected By: CLIENT

Sample Desc: GC 13-6658 (Quarterly, Composite)

Date Received: 07/24/13 15:15

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	07/29	10:23	LNA
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	07/25	10:10	LNA
Chromium, Total	<.005	mg/L	.005	1	EPA 200.7	07/25	10:10	LNA
Copper, Total	0.078	mg/L	.01	1	EPA 200.7	07/25	10:10	LNA
Lead, Total	<.01	mg/L	.01	1	EPA 200.7	07/25	10:10	LNA
Mercury, Total	<.0001	mg/L	.0001	1	EPA 245.1	07/30	16:20	JXS
Molybdenum, Total	<.01	mg/L	.01	1	EPA 200.7	07/25	10:10	LNA
Nickel, Total	<.005	mg/L	.005	1	EPA 200.7	07/25	10:10	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	07/29	12:36	LNA
Zinc, Total	0.162	mg/L	.005	1	EPA 200.7	07/25	10:10	LNA

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.



ACIL Seal of Excellence



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 07/31/13
Lab ID: 124-13-0031810

Date Collected: 07/23/13 08:00
Collected By: CLIENT


Sample Desc: GC 13-6658 (Quarterly, Composite)

Date Received: 07/24/13 15:15

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	4.0	mg/l	.5	10	SM 4500P-E	07/25	10:00	ALD

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 07/31/13
Lab ID: 124-13-0031813

Date Collected: 07/24/13 08:05
Collected By: CLIENT

Sample Desc: GC 13-6659 (Quarterly, Grab)

Date Received: 07/24/13 15:15

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	07/29	15:17	JCL
Cyanide, Total	0.005	mg/L	.004	1	10204001X	07/29	15:17	JCL

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

Page 1 of 1

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.



ACIL Seal of Excellence



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 07/31/13
Lab ID: 124-13-0031811

Date Collected: 07/24/13 08:05
Collected By: CLIENT

Sample Desc: GC 13-6659 (Quarterly, Grab)

Date Received: 07/24/13 15:15

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	19	mg/L	5	1	EPA 1664	07/25	05:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	07/26	07:00	WXC

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

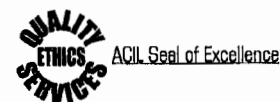
Page 1 of 1

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 07/31/13
Lab ID: 124-13-0031809

Date Collected: 07/24/13 08:05
Collected By: CLIENT

Sample Desc: GC 13-6659 (Quarterly, Grab)

Date Received: 07/24/13 15:15

Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY							
COLORMETRIC							
Phenols (4AAP)	0.070	mg/L	.01	1	EPA 420.4	07/29 12:04	JCL

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.



ACIL Seal of Excellence



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

3rd Qtr

Date of Report: 07/31/13
Lab ID: 124-13-0031815

Date Collected: 07/23/13 08:15
Collected By: CLIENT


Sample Desc: 6th 13-6660 (Quarterly, Composite)

Date Received: 07/24/13 15:15

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	2.6	mg/L	.5	10	SM 4500P-E	07/25	10:00	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	07/29	10:23	LNA
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	07/25	10:10	LNA
Chromium, Total	0.006	mg/L	.005	1	EPA 200.7	07/25	10:10	LNA
Copper, Total	0.029	mg/L	.01	1	EPA 200.7	07/25	10:10	LNA
Lead, Total	<.01	mg/L	.01	1	EPA 200.7	07/25	10:10	LNA
Mercury, Total	<.0001	mg/L	.0001	1	EPA 245.1	07/30	16:20	JXS
Molybdenum, Total	0.04	mg/L	.01	1	EPA 200.7	07/25	10:10	LNA
Nickel, Total	<.005	mg/L	.005	1	EPA 200.7	07/25	10:10	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	07/29	12:36	LNA
Zinc, Total	0.106	mg/L	.005	1	EPA 200.7	07/25	10:10	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	8.7	ug/L	5	1	EPA 625	07/26	16:50	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	07/25	09:00	JLV

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 07/31/13
Lab ID: 124-13-0031814

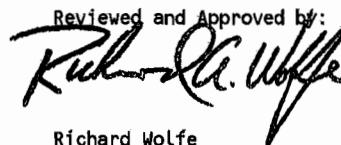
Date Collected: 07/24/13 08:18
Collected By: CLIENT

Sample Desc: 6th 13-6661 (Quarterly, Grab)

Date Received: 07/24/13 15:15

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	0.005	mg/L	.004	1	DEP 1	07/29	15:17	JCL
Cyanide, Total	0.006	mg/L	.004	1	10204001X	07/29	15:17	JCL
Phenols (4AAP)	0.068	mg/L	.01	1	EPA 420.4	07/29	12:04	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	19	mg/L	5	1	EPA 1664	07/25	05:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	07/26	07:00	WXC

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



3rd Qtr

Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

AMENDED

Date of Report: 09/30/13
Lab ID: 0124-13-0035657
Date Collected: 08/13/13 09:25
Collected By: Client
Date Received: 08/14/13 14:40

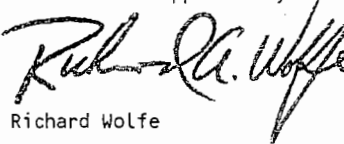
Sample Description: Belt Press Sludge 13-7357 (Quarterly + Form 43) Total
Analysis

* Results Expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
CHEMISTRY							
COLORMETRIC							
Cyanide, Free	<2	* mg/kg	2	DEP 1	08/19	16:28	jcl
Cyanide, Reactive	<110	* mg/kg	110	SW846 7.3	08/22	17:21	jcl
Cyanide, Total	4	* mg/kg	2	10204001X	08/19	16:28	jcl
Phenols (4AAP)	42	* mg/kg	4.5	EPA 420.4	08/19	14:01	jcl
Phosphorus as P, Total	12900	* mg/kg	566	SM 4500P-E	08/16	07:55	ald
OTHER							
Paint Filter Liquids Test	NoFreeLiquids		0	SW846 9095	08/26	13:40	jxs
PHYSICAL							
Corrosivity	Not Corrosive		0	SW846 7.2	08/26	14:30	ald
Ignitability	Not Ignitable		0	SW846 1030	08/26	14:31	jxs
pH	9.17	su	2	SW846 9045	08/15	13:35	emw
Reactivity	Not Reactive		0	SW846 7.3	08/28	08:18	raw
Visual Color	Dark Brown	Descript.	1	VISUAL	08/28	16:12	ald
RESIDUES							
Solids, Total Volatile	64.1	%	1	SM 2540G	08/19	16:50	rdd
Total Solids	22.1	%	.01	SM 2540G	08/19	16:50	rdd
TITRATIONS							
Sulfide, Reactive	390	* mg/kg	230	SW846 7.3	08/23	10:30	jae
INORGANIC							
TOTAL							
Arsenic, Total	2	* mg/kg	0.4	EPA 200.9	08/21	14:01	rls
Barium, Total	397	* mg/kg	2.26	SW846 6010	08/16	10:38	lna
Cadmium, Total	3	* mg/kg	2	SW846 6010	08/16	10:38	lna
Chromium, Total	114	* mg/kg	2.26	SW846 6010	08/16	10:38	lna
Copper, Total	529	* mg/kg	4.52	SW846 6010	08/20	12:34	lna
Lead, Total	180	* mg/kg	4.5	SW846 6010	08/16	10:38	lna
Mercury, Total	0.9	* mg/kg	0.9	SW846 7471	08/23	12:18	jxs

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.
Reviewed and Approved By:


Richard Wolfe
Technical Director

Page 1 of 2

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611

PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 09/30/13
Lab ID: 0124-13-0035657
Date Collected: 08/13/13 09:25
Collected By: Client
Date Received: 08/14/13 14:40

Sample Description: Belt Press Sludge 13-7357 (Quarterly + Form 43) Total
Analysis

* Results Expressed as Dry Weight

	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
Molybdenum, Total	72	* mg/kg	4.5	SW846 6010	08/16	10:38	lna
Nickel, Total	60.6	* mg/kg	2.26	SW846 6010	08/16	10:38	lna
Selenium, Total	5.0	* mg/kg	0.90	EPA 200.9	08/21	23:49	rls
Silver, Total	6.8	* mg/kg	2.3	SW846 6010	08/20	08:52	lna
Zinc, Total	1570	* mg/kg	2.26	SW846 6010	08/20	12:34	lna
O&G/TPH							
GENERAL							
Oil and Grease	19840	* mg/kg	1131	EPA 1664	08/20	05:00	wxc
Total Petroleum Hydrocarbons	5271	* mg/kg	22.62	EPA 1664	08/27	05:00	WXC
ORGANIC							
EPA NEUTRALS							
Bis(2-Ethylhexyl) phthalate	4.5	* mg/kg	2.3	SW846 8270	08/27	10:51	meb
EXTRACTION							
SW846 8082 Extraction	Complete		0	SW846 8082	08/21	15:00	mcm
SW846 8270 Extraction	Complete		0	SW846 8270	08/21	09:00	meb
PCBS							
PCB-1016	<0.905	* ug/kg	0.905	SW846 8082	08/23	09:34	rpb
PCB-1221	<0.905	* mg/kg	0.905	SW846 8082	08/23	09:34	rpb
PCB-1232	<0.905	* mg/kg	0.905	SW846 8082	08/23	09:34	rpb
PCB-1242	<0.905	* mg/kg	0.905	SW846 8082	08/23	09:34	rpb
PCB-1248	<0.905	* mg/kg	0.905	SW846 8082	08/23	09:34	rpb
PCB-1254	<0.905	* mg/kg	0.905	SW846 8082	08/23	09:34	rpb
PCB-1260	<0.905	* mg/kg	0.905	SW846 8082	08/23	09:34	rpb

COMMENTS:

1 - Not Ignitable: No combustion after 2 minutes of direct contact with a torch's flame.

2 - The report has been amended to report the results on a Dry Weight Basis.

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.

Reviewed and Approved By:


Richard Wolfe

Technical Director

Page 2 of 2

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611

PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes





M. J. Reider Associates, Inc.
107 Angelica Street
Reading, PA 19611
Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Submitter

R 37223

Page 1 of 1

6. Report Type:

☒ Routine

Standard QC

Data Package

7. Turnaround Time

☒ Standard

RUSH: / /

1. Client (Company or Individual):

City of Reading

Address:

815 Washington St

City:

Reading

State:

Pa

ZIP:

19601

Phone:

FAX:

2. Invoice To: (If different from above)

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #: Quarterly + Form 43

4. P.O. No.: #124

5. Sampled By: CST

Matrix Code (for item 12)

Container Codes (for item 13)

Preservative Code (for item 14)

DW = Drinking Water

GW = Ground Water

WW = Waste Water

S = Soil

O = Other: Sludge

2L = 2 Liter

L = Liter

500 = 500ml

250 = 250ml

125 = 125ml

40 = 40ml

V = VOA vial

G = Glass

P = Plastic

M = Micro

O = Other

A = Ascorbic Acid

C = HCl

N = HNO3

S = H2SO4

P = H3PO4

H = NaOH

T = NaS2O3

E = EDTA

L = NH4Cl

Z = Zinc Acetate

V = Ascorbic/HCl

O = Other

M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

Samples received on Ice?

Sample Containers Intact?

VOC's Free of Headspace?

COC Seal Intact or attached?

☒ N

☒ N

☒ N

☒ Y N

☒ Y N

☒ Y N

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by: TSC

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

PWSID #

☐ NPDES

MJRA

9. Sample

10.

11.

12.

ID #

Description

Date

Time

Composite

Grab

Matrix

16. Total # of Containers

35657

Belt press sludge 13-7357

8/13/13

925

✓

0

4

As Rec

35658

TCLP

35659

As TM

13. Container: Size / Type

14. Preservative

15. Analyses Requested

Form 43
See sheet

Also (T) Phosphorous

CW (T+F) Phenols

Oil + Grease (Rem + Sett + Mem)

TS, Visual-Color

8270 (Bis Z)

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by:

Approved by:

TST hrs

Comments:

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.

Form 43 and Form U analysis updated 9/12/07

Total Metals: Arsenic, barium, cadmium, chromium, copper, lead, mercury, molybdenum, nickel, selenium, silver, zinc

pH

Ignitability

Reactive Sulfide and Reactive Cyanide

Free Liquids

PCB's

Total solids

Total volatile solids

Oil and Grease and Total Petroleum Hydrocarbons

ASTM – report as mg/L

pH

COD

TS

Oil and Grease and petroleum hydrocarbons

Ammonia-Nitrogen

TCLP – include all parameters found in 40 CFR 261.24 as well as pH of extract.

Report all results in mg/L

pH of extract

Barium

Chromium

Iron

Mercury

Selenium

Zinc

Cresol

2,4-Dinitrotoluene

Hexachlorobutadiene

Pentachlorophenol

2,4,5-Trichlorophenol

Benzene

Chlorobenzene

1,2-Dichloroethane

Tetrachloroethylene

Chlordane

Endrin

Lindane

Toxaphene

Methyl ethyl ketone (2- Butanone)

Trichloroethylene

Arsenic

Cadmium

Copper

Lead

Nickel

Silver

o,m,p Cresols

1,4-Dichlorobenzene

Hexachlorobenzene

Hexachloroethane

Pyridine

2,4,6-Trichlorophenol

Carbon Tetrachloride

Chloroform

1,1-Dichloroethylene

Vinyl Chloride

2,4-D

Heptachlor (and its Epoxide)

Methoxychlor

2,4,5-TP (Silvex)

Nitrobenzene

Pyridine



M. J. Reider Associates, Inc.

107 Angelica Street

Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Submitter

R 37223

Page 1 of 1

6. Report Type:

☒ Routine

☐ Standard QC

☐ Data Package

7. Turnaround Time

☒ Standard

RUSH: / /

1. Client (Company or Individual):

City of Reading

Address:

815 Washington St

City:

Reading

State:

Pa

ZIP:

19601

Phone:

FAX:

2. Invoice To: (if different from above)

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #:

Quarterly + Form 43

4. P.O. No.:

#124

5. Sampled By:

CST

Matrix Code (for item 12)

DW = Drinking Water

GW = Ground Water

WW = Waste Water

S = Soil

O = Other: Sludge

Container Codes (for item 13)

SIZE

TYPE

2L = 2 Liter

L = Liter

500 = 500ml

250 = 250ml

125 = 125ml

40 = 40ml

V = VOA vial

G = Glass

P = Plastic

M = Micro

O = Other

Preservative Code (for item 14)

A = Ascorbic Acid

T = NaS2O3

C = HCl

E = EDTA

N = HNO3

L = NH4Cl

S = H2SO4

Z = Zinc Acetate

P = H3PO4

V = Ascorbic/HCl

H = NaOH

O = Other

M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

☒

N

Samples received on ice?

☒

N

Sample Containers Intact?

☒

N

VOC's Free of Headspace?

Y

N

COC Seal Intact or attached?

Y

N

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by: JMC

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

PWSID #

☐ NPDES

16.

Total # of Containers

MJRA

ID #

9. Sample

Description

10.

Date

Time

11.

Composite

Grab

12.

Matrix

35657

Belt press sludge

13-7357

8/13/13

925

☒

☐

0

4

4

As Rec

35658

TCLP

35659

ASTM

13. Container: Size / Type

←

14. Preservative

←

15. Analyses Requested

Form 43
See sheet

Also (T) Phosphorous

CW (T+F) Phenols

Oil + Grease (Rem + Sgt + Hm)

TS, Visual-Color

8270 (Bis 2)

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by:

Approved by:

TST hrs

Comments:

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.

Form 43 and Form U analysis updated 9/12/07

Total Metals: Arsenic, barium, cadmium, chromium, copper, lead, mercury, molybdenum, nickel, selenium, silver, zinc

pH

Ignitability

Reactive Sulfide and Reactive Cyanide

Free Liquids

PCB's

Total solids

Total volatile solids

Oil and Grease and Total Petroleum Hydrocarbons

ASTM – report as mg/L

pH

COD

TS

Oil and Grease and petroleum hydrocarbons

Ammonia-Nitrogen

TCLP – include all parameters found in 40 CFR 261.24 as well as pH of extract.

Report all results in mg/L

pH of extract

Barium

Chromium

Iron

Mercury

Selenium

Zinc

Cresol

2,4-Dinitrotoluene

Hexachlorobutadiene

Pentachlorophenol

2,4,5-Trichlorophenol

Benzene

Chlorobenzene

1,2-Dichloroethane

Tetrachloroethylene

Chlordane

Endrin

Lindane

Toxaphene

Methyl ethyl ketone (2- Butanone)

Trichloroethylene

Arsenic

Cadmium

Copper

Lead

Nickel

Silver

o,m,p Cresols

1,4-Dichlorobenzene

Hexachlorobenzene

Hexachloroethane

Pyridine

2,4,6-Trichlorophenol

Carbon Tetrachloride

Chloroform

1,1-Dichloroethylene

Vinyl Chloride

2,4-D

Heptachlor (and its Epoxide)

Methoxychlor

2,4,5-TP (Silvex)

Nitrobenzene

Pyridine



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



4th Qtr

Attention: Amy L. Morriss
Reported to: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

RECEIVED
OCT 21 2013
DEPT. OF PUBLIC WORKS

Date of Report: 10/17/13
Lab ID: 0124-13-0044517
Date Collected: 10/02/13 09:20
Collected By: Client
Date Received: 10/02/13 14:55

Sample Description: 13-9148 Biosolids (Quarterly Composite)

* Results Expressed as Dry Weight

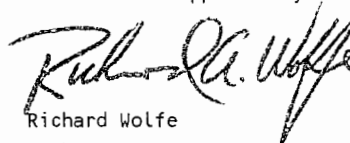
	Results	Unit	Detection Limit	Procedure	Test Date	Test Time	Analyst
CHEMISTRY							
COLORMETRIC							
Cyanide, Free	2	* mg/kg	2	DEP 1	10/08	17:08	jcl
Cyanide, Total	5.0	* mg/kg	2.0	10204001X	10/08	17:08	jcl
Phenols (4AAP)	50.5	* mg/kg	5.00	EPA 420.4	10/08	13:16	JCL
Phosphorus as P, Total	17600	* mg/kg	625	SM 4500P-E	10/03	11:30	ald
PHYSICAL							
Visual Color	Dark Brown	color	1	VISUAL	10/16	13:40	jxs
RESIDUES							
Total Solids	20.0	%	1	SM 2540G	10/04	12:05	tmh
INORGANIC							
Chromium, Total	108	* mg/kg	2.50	SW846 6010	10/04	10:34	lna
Silver, Total	7.0	* mg/kg	2.5	SW846 6010	10/07	10:10	lna
O&G/TPH							
GENERAL							
N-Hexane Extractable Material (O&G)	25120	* mg/kg	1250	EPA 1664	10/08	05:00	wxc
Silica Gel Treated N-Hexane Extract(TPH)	7750	* mg/kg	1250	EPA 1664	10/08	11:00	wxc
ORGANIC							
BASE NEUTRALS							
Bis(2-Ethylhexyl) phthalate	<25.0	* mg/kg	25.0	SW846 8270	10/14	20:07	mcb
EXTRACTION							
SW846 8270 Extraction	Complete		0	SW846 8270	10/11	09:00	mcm

COMMENTS:

1 - The elevated reporting limits for the semi-volatiles was due to sample matrix interference.

Distribution of Report:
Amy L. Morriss - City of Reading WWTP

M. J. Reider Associates, Inc.
Reviewed and Approved By:


Richard Wolfe
Technical Director

Page 1 of 1

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analysis



ACI, Seal of Excellence



M. J. Reider Associates, Inc.

107 Angelica Street

Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Submitter

R 37924

Page 1 of 1

6. Report Type:

☒ Routine

☐ Standard QC

☐ Data Package

7. Turnaround Time

☒ Standard

RUSH: / /

1. Client (Company or Individual):

City of Reading

Address:

City:

State:

ZIP:

Phone:

FAX:

2. Invoice To: (If different from above)

Quarterly

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #:

#124 Lab

4. P.O. No.:

5. Sampled By:

CST

Matrix Code (for item 12)

Container Codes (for item 13)

Preservative Code (for item 14)

DW = Drinking Water

GW = Ground Water

WW = Waste Water

S = Soil

O = Other

2L = 2 Liter

L = Liter

500 = 500ml

250 = 250ml

125 = 125ml

40 = 40ml

V = VOA vial

G = Glass

P = Plastic

M = Micro

O = Other

A = Ascorbic Acid

C = HCl

N = HNO3

S = H2SO4

P = H3PO4

H = NaOH

T = NaS2O3

E = EDTA

L = NH4Cl

Z = Zinc Acetate

V = Ascorbic/HCl

O = Other

M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

Samples received on ice?

Sample Containers Intact?

VOC's Free of Headspace?

COC Seal Intact or attached?

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER

Checked by:

RAG

17. SPECIAL INSTRUCTIONS/COMMENTS:

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

PWSID #

☐ NPDES

16.

Total # of Containers

MJRA

ID #

9. Sample

Description

10.

Date

Time

11.

Composite

Grab

12.

Matrix

44517

13-9/48 B.Solids

10/2/13

920

X

O

2

13. Container: Size / Type

14. Preservative

15. Analyses Requested

Ag, Cr, Phosphorus (T), Cyanide Total + Free
Phenols
U/b Hem + 5 GT Hem
TS, Visual-Color, 8270 (4.52)

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by

Approved by:

TST hrs

Comments

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



4th Qtr

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/31/13
Lab ID: 124-13-0047936

Date Collected: 10/21/13 10:38
Collected By: CLIENT

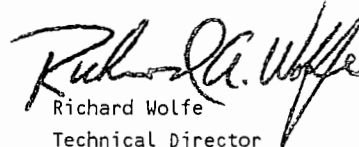
Sample Desc: GC 13-9823

Date Received: 10/23/13 14:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	7.5	mg/l	.5	10	SM 4500P-E	10/24	11:30	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/l	.001	1	EPA 200.9	10/28	10:24	RLS
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.7	10/28	10:53	LNA
Chromium, Total	<.005	mg/l	.005	1	EPA 200.7	10/28	10:53	LNA
Copper, Total	0.099	mg/l	.01	1	EPA 200.7	10/28	10:53	LNA
Lead, Total	<.01	mg/l	.01	1	EPA 200.7	10/28	10:53	LNA
Mercury, Total	0.0009	mg/l	.0001	1	EPA 245.1	10/29	12:38	JXS
Molybdenum, Total	0.02	mg/l	.01	1	EPA 200.7	10/28	10:53	LNA
Nickel, Total	<.005	mg/l	.005	1	EPA 200.7	10/28	10:53	LNA
Silver, Total	<.005	mg/l	.005	1	EPA 200.7	10/24	12:14	JXS
Zinc, Total	0.196	mg/l	.005	1	EPA 200.7	10/28	10:53	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	5.2	ug/l	5	1	EPA 625	10/28	16:45	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	10/28	08:00	JLV

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

28
St Lawrence

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611

PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/31/13
Lab ID: 124-13-0047937

Date Collected: 10/22/13 10:40
Collected By: CLIENT

Sample Desc: GC 13-9825

Date Received: 10/23/13 14:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	10/29	11:13	JCL
Cyanide, Total	<.004	mg/L	.004	1	10204001X	10/29	11:13	JCL
Phenols (4AAP)	0.060	mg/L	.01	1	EPA 420.4	10/24	13:11	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	20	mg/L	5	1	EPA 1664	10/24	06:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	10/24	12:00	WXC

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611

PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.



ACIL Seal of Excellence



M. J. Reider Associates, Inc.

107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Submitter

R 38485

Page 4 of 4

6. Report Type:

☒ Routine

Standard QC

Data Package

7. Turnaround Time

☒ Standard

RUSH: / /

1. Client (Company or Individual):

City of Reading

Address:

City:

Address:

City:

State:

State:

ZIP:

ZIP:

Phone:

Phone:

FAX:

FAX:

2. Invoice To: (If different from above)

Quarterly

3. Client Project Name / #:

Lab #124

4. P.O. No.:

5. Sampled By:

CST

Matrix Code (for item 12)

DW = Drinking Water

GW = Ground Water

WW = Waste Water

S = Soil

O = Other

Container Codes (for item 13)

SIZE

TYPE

2L = 2 Liter

L = Liter

500 = 500ml

250 = 250ml

125 = 125ml

40 = 40ml

V = VOA vial

G = Glass

P = Plastic

M = Micro

O = Other

Preservative Code (for item 14)

A = Ascorbic Acid

C = HCl

N = HNO3

S = H2SO4

P = H3PO4

H = NaOH

T = NaS2O3

E = EDTA

L = NH4Cl

Z = Zinc Acetate

V = Ascorbic/HCl

O = Other

M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

Samples received on ice?

Sample Containers Intact?

VOC's Free of Headspace?

COC Seal Intact or attached?

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by:

17. SPECIAL INSTRUCTIONS/COMMENTS:

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required

☐ FHA/Realty

☐ NPDES

PWSID #

MJRA

ID #

9. Sample

Description

10.

Date

Time

11.

Composite

Grab

Matrix

12.

16.

Total # of Containers

50% 50% 1/6 50% 50% 1/6
N S / 1/4 S C

13. Container: Size / Type

14. Preservative

15. Analyses Requested

As, Ag, Cd, Cr, Cu, Hg, Pb, Mn, Ni, Zn
Phosphorus (T)
625 (B.s 2)
Cyanide Total + Free
Phenols
Oil and Grease HEM + SATHM

A
B
C
A1
C
DE

18. RELINQUISHED BY

JCN

19. RECEIVED BY

JCN

DATE

10-22-13

TIME

1135

Entered by: JCN Approved by: TST hrs

Comments:

10-23-13

1445

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



4th Qtr

Attention: Amy L. Morriss
Reported To: City of Reading WWP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/31/13
Lab ID: 124-13-0047934

Date Collected: 10/21/13 08:12
Collected By: CLIENT

Sample Desc: FC 13-9812

Date Received: 10/23/13 14:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	3.2	mg/L	.5	10	SM 4500P-E	10/24	11:30	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	10/28	10:24	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	10/28	10:53	LNA
Chromium, Total	<.005	mg/L	.005	1	EPA 200.7	10/28	10:53	LNA
Copper, Total	0.027	mg/L	.01	1	EPA 200.7	10/28	10:53	LNA
Lead, Total	<.01	mg/L	.01	1	EPA 200.7	10/28	10:53	LNA
Mercury, Total	<.0001	mg/L	.0001	1	EPA 245.1	10/29	12:38	JXS
Molybdenum, Total	0.03	mg/L	.01	1	EPA 200.7	10/28	10:53	LNA
Nickel, Total	<.005	mg/L	.005	1	EPA 200.7	10/28	10:53	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	10/24	12:14	JXS
Zinc, Total	0.058	mg/L	.005	1	EPA 200.7	10/28	10:53	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	<5	ug/L	5	1	EPA 625	10/28	16:45	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	10/28	08:00	JLV

Distribution of Reports:

Reviewed and Approved by

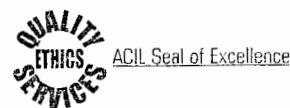
Richard Wolfe
Technical Director

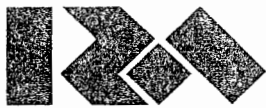
This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.





CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/31/13
Lab ID: 124-13-0047935

Date Collected: 10/22/13 08:02
Collected By: CLIENT

Sample Desc: FC 13-9813

Date Received: 10/23/13 14:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	0.004	mg/L	.004	1	DEP 1	10/29	11:13	JCL
Cyanide, Total	0.006	mg/L	.004	1	10204001X	10/29	11:13	JCL
Phenols (4AAP)	<.01	mg/L	.01	1	EPA 420.4	10/24	13:11	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	<5	mg/L	5	1	EPA 1664	10/24	06:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	10/24	12:00	WXC

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.



**M. J. Reider Associates, Inc.**107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Submitter

R 38482Page 1 of 4

6. Report Type:

☒ Routine

Standard QC

Data Package

7. Turnaround Time

☒ StandardRUSH: / /

1. Client (Company or Individual):

City of Reading

Address:

815 Washington St

City:

Reading

State:

Pa

ZIP:

19601

Phone:

FAX:

2. Invoice To: (If different from above)

Quarterly

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #:

#124 Lab

4. P.O. No.:

5. Sampled By:

CST

Matrix Code (for item 12)

DW = Drinking Water

GW = Ground Water

WW = Waste Water

S = Soil

O = Other

Container Codes (for item 13)

SIZE

2L = 2 Liter

L = Liter

500 = 500ml

250 = 250ml

125 = 125ml

40 = 40ml

TYPE

V = VOA vial

G = Glass

P = Plastic

M = Micro

O = Other

Preservative Code (for item 14)

A = Ascorbic Acid

T = NaS2O3

C = HCl

E = EDTA

N = HNO3

L = NH4Cl

S = H2SO4

Z = Zinc Acetate

P = H3PO4

V = Ascorbic/HCl

H = NaOH

O = Other

M = Monochloroacetic Acid

Sample Receipt Information

Temperature @ 4C?

N

Samples received on ice?

N

Sample Containers Intact?

N

VOC's Free of Headspace?

YN

COC Seal Intact or attached?

YN

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by: JP

8. COMPLIANCE PURPOSE:

☐ Public Drinking Water: PA SDWA Forms Required☐ FHA/Realty

PWSID #

☐ NPDES

16.

Total # of Containers

P/500	P/500	G/L	P/500	G/500	G/L
N	S	/	NA	S	C

13. Container: Size / Type

14. Preservative

15. Analyses Requested

MJRA ID #	9. Sample Description	10.		11.		12.	Total # of Containers
		Date	Time	Composite	Grab	Matrix	
47934	FC 13-9812	10/21/13	8:12	X		W	3
		10/21/13	8:12				1
		10/21/13	8:12				1
47935	FC 13-9813	10/22/13	8:02	X		W	5
		10/22/13	8:02				1
		10/22/13	8:02				2

As, Ag, Cd, Cr, Cu, Hg, Pb, Mn, Ni, Zn
Phosphorus (T)
625 (8.5 2)
Cyanide Total + Free
Phenols
Oil and Grease Hemt SGT Hem

18. RELINQUISHED BY

19. RECEIVED BY

DATE

TIME

Entered by: JP Approved by: TST hrs

Comments:

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



6th Qtr

Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/31/13
Lab ID: 124-13-0047927

Date Collected: 10/21/13 10:53
Collected By: CLIENT

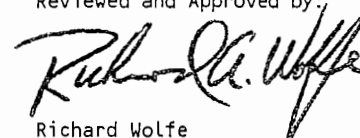
Sample Desc: 6th 13-9826

Date Received: 10/23/13 14:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	4.3	mg/L	.5	10	SM 4500P-E	10/24	11:30	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/L	.001	1	EPA 200.9	10/28	10:24	RLS
Cadmium, Total	<.005	mg/L	.005	1	EPA 200.7	10/28	10:53	LNA
Chromium, Total	0.012	mg/L	.005	1	EPA 200.7	10/28	10:53	LNA
Copper, Total	0.048	mg/L	.01	1	EPA 200.7	10/28	10:53	LNA
Lead, Total	<.01	mg/L	.01	1	EPA 200.7	10/28	10:53	LNA
Mercury, Total	<.0001	mg/L	.0001	1	EPA 245.1	10/29	12:38	JXS
Molybdenum, Total	0.04	mg/L	.01	1	EPA 200.7	10/28	10:53	LNA
Nickel, Total	<.005	mg/L	.005	1	EPA 200.7	10/28	10:53	LNA
Silver, Total	<.005	mg/L	.005	1	EPA 200.7	10/24	12:14	JXS
Zinc, Total	0.200	mg/L	.005	1	EPA 200.7	10/28	10:53	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	7.2	ug/L	5	1	EPA 625	10/28	16:45	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	10/28	08:00	JLV

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.

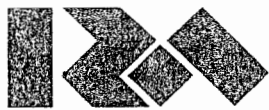


ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.



ACIL Seat of Excellence



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/31/13
Lab ID: 124-13-0047928

Date Collected: 10/22/13 10:56
Collected By: CLIENT

Sample Desc: 6th 13-9828

Date Received: 10/23/13 14:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	0.004	mg/L	.004	1	DEP 1	10/29	11:13	JCL
Cyanide, Total	0.010	mg/L	.004	1	10204001X	10/29	11:13	JCL
Phenols (4AAP)	0.095	mg/L	.01	1	EPA 420.4	10/24	13:11	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	30	mg/L	5	1	EPA 1664	10/24	06:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	10/24	12:00	WXC

Distribution of Reports:

Reviewed and Approved by:

Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.



ACI Seal of Excellence

**M. J. Reider Associates, Inc.**107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORDPlease Print Legibly
(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Submitter

R 38484Page 3 of 4**6. Report Type:**☒ Routine☐ Standard QC☐ Data Package**7. Turnaround Time**☒ StandardRUSH: / / **1. Client (Company or Individual):**

City of Reading

Address:

City:

State:

ZIP:

Phone:

FAX:

2. Invoice To: (If different from above)

Quarterly

Address:

City:

State:

ZIP:

Phone:

FAX:

3. Client Project Name / #:

Lab #124

4. P.O. No.:**5. Sampled By:**

CJT

Matrix Code (for item 12)DW = Drinking Water
GW = Ground Water
WW = Waste Water
S = Soil
O = Other**Container Codes (for item 13)**

SIZE

2L = 2 Liter
L = Liter500 = 500ml
250 = 250ml
125 = 125ml
40 = 40ml

TYPE

V = VOA vial
G = Glass
P = Plastic
M = Micro
O = Other**Preservative Code (for item 14)**A = Ascorbic Acid T = NaS2O3
C = HCl E = EDTA
N = HNO3 L = NH4Cl
S = H2SO4 Z = Zinc Acetate
P = H3PO4 V = Ascorbic/HCl
H = NaOH O = Other
M = Monochloroacetic Acid**Sample Receipt Information**

Temperature @ 4C?

Samples received on ice?

Sample Containers Intact?

VOC's Free of Headspace?

COC Seal Intact or attached?

N

N

N

N

Y

Samples Shipped or Hand Delivered

Method of Shipment:

Tracking #:

Cooler Return Fee:

ICE CHEST NUMBER:

Checked by: JBS

8. COMPLIANCE PURPOSE:☐ Public Drinking Water: PA SDWA Forms Required☐ FHA/Really

PWSID # _____

☐ NPDES**16.**

Total # of Containers

50%	50%	1/2	1/2	50%	1/2
N	S	/	H/A	S	C

13. Container: Size / Type

←

14. Preservative

←

15. Analyses Requested

↓

As, Ag, Cd, Cr, Cu, Hg, Pb, Mn, Ni, Zn

Phosphorus (T)

6.25 (B.S. 2)

Cyanide Total + Free

Phenols

O.I. and Grease H&M & S&H & DE

MJRA ID #**9. Sample Description****10.**

Date

Time

11.

Composite

12.

Grab

12.

Matrix

47927

6th 13-9826

10-21-13 1053

X

W

3

1

↓

↓

↓

↓

47928

6th 13-9828

10-22-13 1056

X

W

5

18. RELINQUISHED BY**19. RECEIVED BY****DATE****TIME**Entered by: Approved by:

TST hrs

Comments:

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



4th Qtr

Attention: Amy L. Morriss
Reported To: City of Reading WWT
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/31/13
Lab ID: 124-13-0047929

Date Collected: 10/21/13 08:45
Collected By: CLIENT

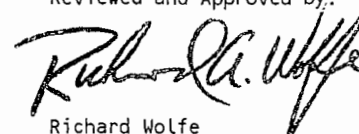
Sample Desc: RC 13-9819

Date Received: 10/23/13 14:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Phosphorus as P, Total	7.4	mg/l	.5	10	SM 4500P-E	10/24	11:30	ALD
INORGANIC								
TOTAL								
Arsenic, Total	<.001	mg/l	.001	1	EPA 200.9	10/28	10:24	RLS
Cadmium, Total	<.005	mg/l	.005	1	EPA 200.7	10/28	10:53	LNA
Chromium, Total	0.007	mg/l	.005	1	EPA 200.7	10/28	10:53	LNA
Copper, Total	0.040	mg/l	.01	1	EPA 200.7	10/28	10:53	LNA
Lead, Total	<.01	mg/l	.01	1	EPA 200.7	10/28	10:53	LNA
Mercury, Total	<.0001	mg/l	.0001	1	EPA 245.1	10/29	12:38	JXS
Molybdenum, Total	0.04	mg/l	.01	1	EPA 200.7	10/28	10:53	LNA
Nickel, Total	<.005	mg/l	.005	1	EPA 200.7	10/28	10:53	LNA
Silver, Total	<.005	mg/l	.005	1	EPA 200.7	10/24	12:14	JXS
Zinc, Total	0.175	mg/l	.005	1	EPA 200.7	10/28	10:53	LNA
ORGANIC								
BASE NEUTRALS								
Bis(2-Ethylhexyl) phthalate	5.0	ug/l	5	1	EPA 625	10/28	16:45	MEB
EXTRACTION								
EPA 625 Extraction	Complete		0	0	EPA 625	10/28	08:00	JLV

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



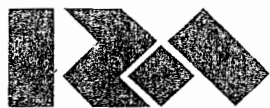
ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611

PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.



ACIL Seal of Excellence



CERTIFICATE OF ANALYSIS

M.J. Reider Associates, Inc.



Attention: Amy L. Morriss
Reported To: City of Reading WWTP
c/o City Hall
815 Washington St.
Reading PA 19601

Date of Report: 10/31/13
Lab ID: 124-13-0047930

Date Collected: 10/22/13 08:48
Collected By: CLIENT

Sample Desc: RC 13-9822

Date Received: 10/23/13 14:45

	Result	Unit	Rep. Limit	Dilutn Factor	Procedure	Test Date	Test Time	Analyst
CHEMISTRY								
COLORMETRIC								
Cyanide, Free	<.004	mg/L	.004	1	DEP 1	10/29	11:13	JCL
Cyanide, Total	0.005	mg/L	.004	1	10204001X	10/29	11:13	JCL
Phenols (4AAP)	0.079	mg/L	.01	1	EPA 420.4	10/24	13:11	JCL
O&G/TPH								
GENERAL								
N-Hexane Extractable Material (O&G)	23	mg/L	5	1	EPA 1664	10/24	06:00	WXC
Silica Gel Treated N-Hexane Extract(TPH)	<5	mg/L	5	1	EPA 1664	10/24	12:00	WXC

Distribution of Reports:

Reviewed and Approved by:


Richard Wolfe
Technical Director

This certificate shall not be reproduced except in full without the written approval of M.J. Reider Associates, Inc.



ENVIRONMENTAL TESTING LABORATORY 107 ANGELICA STREET, READING, PA 19611
PHONE: 610-374-5129 • FAX: 610-374-7234 • www.mjreider.com

NELAP accredited by PA. (PADEP #06-00003) (NYSDOH11630) Visit our website to view our current
NELAC accreditations for various drinking water, wastewater and solid & chemical materials analytes.



ACIL Seal of Excellence

**M. J. Reider Associates, Inc.**107 Angelica Street
Reading, PA 19611

Phone: 610-374-5129 FAX: 610-374-7234

CHAIN OF CUSTODY RECORD

Please Print Legibly

(INSTRUCTIONS ON BACK OF THIS FORM)

DISTRIBUTION: White: Report; Yellow: Submitter

R 38483Page 2 of 4**6. Report Type:**☒ Routine

Standard QC

Data Package

7. Turnaround Time☒ StandardRUSH: / / **1. Client (Company or Individual):**City of Reading**Address:**815 Washington St
Reading State: PA ZIP: 19601Phone: FAX: **2. Invoice To: (If different from above)**Quarterly**Address:**City: State: ZIP: Phone: FAX: **3. Client Project Name / #:**#124 Lab**4. P.O. No.:****5. Sampled By:**CT**Matrix Code (for item 12)**DW = Drinking Water
GW = Ground Water
WW = Waste Water
S = Soil
O = Other **Container Codes (for item 13)**

SIZE

TYPE

2L = 2 Liter

V = VOA vial

L = Liter

G = Glass

500 = 500ml

P = Plastic

250 = 250ml

M = Micro

125 = 125ml

O = Other

40 = 40ml

Preservative Code (for item 14)

A = Ascorbic Acid

T = NaS2O3

C = HCl

E = EDTA

N = HNO3

L = NH4Cl

S = H2SO4

Z = Zinc Acetate

P = H3PO4

V = Ascorbic/HCl

H = NaOH

O = Other

M = Monochloroacetic Acid

Sample Receipt InformationTemperature @ 4C? ☒ N Samples received on ice? ☒ N Sample Containers Intact? ☒ N VOC's Free of Headspace? ☒ N COC Seal Intact or attached? ☒ Y ☒ N **Samples Shipped or Hand Delivered**Method of Shipment: Tracking #: Cooler Return Fee: ICE CHEST NUMBER: Checked by: **17. SPECIAL INSTRUCTIONS/COMMENTS:****8. COMPLIANCE PURPOSE:**☐ Public Drinking Water: PA SDWA Forms Required☐ FHA/RealtyPWSID # ☐ NPDES**16.**

Total # of Containers

50%	50%	1/6	1/6	50%	1/6
N	S	/	1/4	S	C

13. Container: Size / Type **14. Preservative** **15. Analyses Requested**As, Ag, Cd, Cr, Cu, Hg, Pb, Mn, Ni, Zn
Phosphorus (T)
625 (B.S. 2)
Cyanide T + F
Phenols
O.I. and Grease HEM's
S&T HEM**MJRA**
ID #**9. Sample****Description****10.****Date****Time****11.****Composite****Grab****12.****Matrix**47929RC 13-981910-21-13845X231 47930RC 13-982210-22-13848X25 **18. RELINQUISHED BY**[Signature]**19. RECEIVED BY**[Signature]**DATE**10-22-13**TIME**855Entered by: Approved by: TST hrsComments:

The Client, by signing, or having client's agent sign, this Chain of Custody Form, agrees to pay for the above requested services per the MJRA Price List or Quotation provided including any and all attorney fees if collection becomes necessary.

**2013 WEEKLY MERCURY TESTING AT PLANT INFLUENT POINTS AND
PLANT EFFLUENT**

MONTHLY 503 ANALYSIS FOR PLANT BIOSOLIDS

BIOSOLIDS FORM 43 PERFORMED 2/5/13 AND 8/13/13

Mercury Testing for 2013 at Plant Influent Points and Plant Effluent

Date		Grit Chamber mg/L		6th Street mg/L		Influent mg/L		Effluent mg/L
01/01/13	<	0.0001		0.0001	<	0.0001	<	0.0001
01/02/13	<	0.0001	<	0.0001		0.0002	<	0.0001
01/08/13	<	0.0001		0.0002	<	0.0001	<	0.0001
1/15/2013		0.0002		0.0001		0.0002	<	0.0001
1/22/2013	<	0.0001			<	0.0001	<	0.0001
1/24/2013			<	0.0001				
✓ 1/29/2013		0.0001		0.0001		✓ 0.0002	<	✓ 0.0001
2/6/2013	<	0.0001	<	0.0001	<	0.0001	<	0.0001
2/7/2013	<	0.0001	<	0.0001		0.0001	<	0.0001
2/12/2013	<	0.0001	<	0.0001	<	0.0001	<	0.0001
2/13/2013	<	0.0001	<	0.0001	<	0.0001	<	0.0001
2/19/2013		0.0006	<	0.0001	<	0.0001	<	0.0001
2/26/2013		0.0001	<	0.0001	<	0.0001	<	0.0001
3/5/2013		0.0003	<	0.0001	<	0.0001	<	0.0001
3/6/2013		0.0002	<	0.0001	<	0.0001	<	0.0001
3/12/2013		0.0011		0.0001		0.0003	<	0.0001
3/19/2013	<	0.0001	<	0.0001		0.0002	<	0.0001
3/26/2013	<	0.0001		0.0003		0.0001	<	0.0001
4/2/2013	<	0.0001	<	0.0001		0.0001	<	0.0001
4/3/2013		0.0001		0.0009		0.0005	<	0.0001
4/9/2013	<	0.0001	<	0.0001		0.001	<	0.0001
4/16/2013		0.0001	<	0.0001		0.0004	<	0.0001
4/23/2013		0.0003		0.0002		0.0002	<	0.0001
✓ 4/24/2013	<	0.0001		0.0001	<	✓ 0.0001	<	✓ 0.0001
4/30/2013		0.0003	<	0.0001		0.0001	<	0.0001
5/7/2013	<	0.0001		0.0002	<	0.0001	<	0.0001
5/14/2013		0.0001	<	0.0001		0.0002	<	0.0002
5/15/2013		0.0001		0.0003		0.0002	<	0.0001
5/21/2013		0.0002		0.0001		0.0002	<	0.0001
5/28/2013		0.0005		0.0001		0.0002	<	0.0001
6/3/2013		0.0003		0.0001		0.0001	<	0.0001
6/4/2013		0.0004		0.0001		0.0002		0.0001
6/11/2013		0.0004		0.0002		0.0002	<	0.0001
6/18/2013		0.0007		0.0004		0.0003	<	0.0001
6/25/2013		0.0004		0.0005	<	0.0001	<	0.0001
7/2/2013		0.0001		0.0001	<	0.0001		0.0001
7/9/2013		0.0002	<	0.0001		0.0002	<	0.0001
7/11/2013		0.0006	<	0.0001		0.0001	<	0.0001
7/16/2013		0.0004	<	0.0001		0.0001	<	0.0001
✓ 7/23/2013	<	0.0001	<	0.0001		✓ 0.0003	<	✓ 0.0001
7/30/2013		0.0002		0.0002	<	0.0001	<	0.0001
8/6/2013		0.0002		0.0002	<	0.0001	<	0.0001
8/14/2013		0.0002		0.0001		0.0004	<	0.0001
8/20/2013		0.0001	<	0.0001		0.0002	<	0.0001
8/28/2013	<	0.0001		0.0001		0.0003	<	0.0001

Date		Grit Chamber mg/L		6th Street mg/L		Influent mg/L		Effluent mg/L
9/3/2013		0.0005	<	0.0001		0.0006	<	0.0001
9/4/2013		0.0006	<	0.0001		0.0004	<	0.0001
9/10/2013		0.001	<	0.0001		0.0003	<	0.0001
9/17/2013	<	0.0001	<	0.0001		0.0026	<	0.0001
9/24/2013		0.0004		0.0002		0.0003		0.0002
10/1/2013		0.0002		0.0005		0.0004	<	0.0001
10/7/2013		0.0002		0.0002		0.0004	<	0.0001
10/8/2013	<	0.0001		0.0002		0.0002	<	0.0001
10/15/2013		0.0002		0.0003		0.0003	<	0.0001
✓ 10/21/2013		0.0009	<	0.0001	<	✓ 0.0001	<	✓ 0.0001
10/29/2013		0.0001		0.0002		0.0002	<	0.0001
11/5/2013	<	0.0001	<	0.0001		0.0001	<	0.0001
11/6/2013	<	0.0001	<	0.0001		0.0001	<	0.0001
11/12/2013	<	0.0001		0.0001		0.0002	<	0.0001
11/19/2013				0.001		0.0006	<	0.0001
11/20/2013		0.0001						
11/26/2013	<	0.0001	<	0.0001		0.0002	<	0.0001
12/3/2013		0.0001		0.0003		0.0003	<	0.0001



Analysis Report for Use of Biosolids on Cropland

Amy Morriss
City of Reading WWTP
815 Washington St
Reading PA 19601

Lab Sample ID: E15643
Date Received: January 7, 2013
Date Sampled: 1/2/13
Report Date: 1/29/13
Sample type: Composite
County:
Customer Sample ID: Belt press sludge 13-69

RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 21.9 C	— % —											
8.1	18.78	64.04	5.44	4.46	0.98	2.19	0.12	0.43	9.89	0.12	1.29	0.86
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
						mg/kg (dry weight basis)						
1668.9	3.52	4.36	105.9	517.7	139.3	1.22	61.1	62.8	6.22	1521.5	< .14	< 1

NR-Not Requested One dry ton of this material is equivalent to 1277 gallons of wet material or 5.3 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)

Total N	5.44	0.92	dry tons of this biosolid will supply 100 lbs of total N.
P ₂ O ₅	5.01	2.28	dry tons of this biosolid will supply 100 lbs of P
K ₂ O	0.15		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	1/25/2013	6:44:40
As	3050B + 6010	Brooks	1/25/2013	6:44:40
Se	3050B + 6010	Brooks	1/25/2013	6:44:40
Hg	7473	Rishel	1/11/2013	1:21:29 PM
PCB ¹	8082			

¹Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

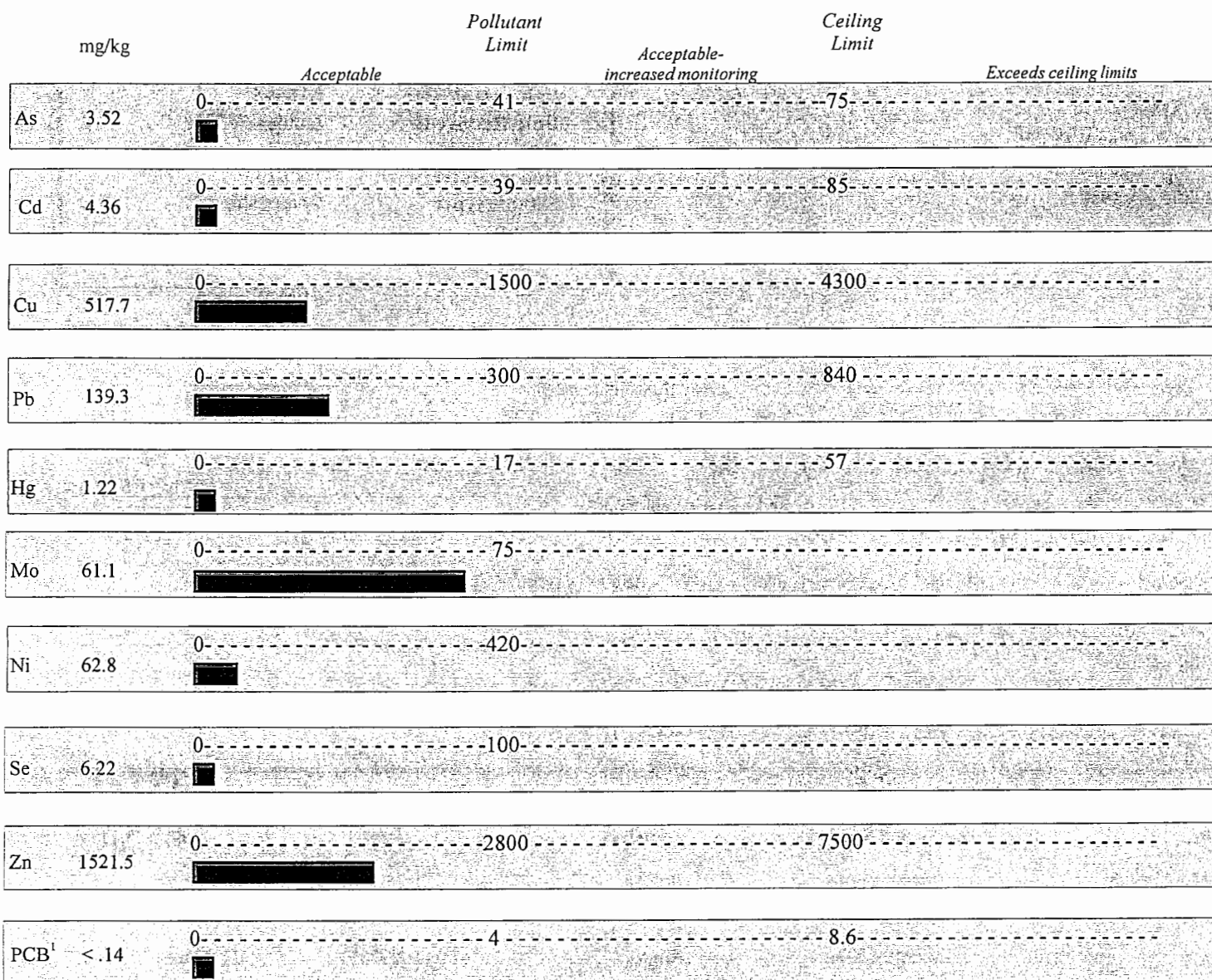
	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.175	2.175	2.175	0.258	2.175	2.175	2.175	2.175	2.175
Analyte conc. in sample/ digest (mg/L except Hg)	0.029	0.036	4.23	0.059 ug	0.50	0.51	1.14	0.05	12.43
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis

Sample Receipt

Ammonia-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and
DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION





Analysis Report for Use of Biosolids on Cropland

<p>Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601</p>	<p>Lab Sample ID: E15695 Date Received: February 11, 2013 Date Sampled: 2/5/13 Report Date: 2/27/13 Sample type: Composite County: Customer Sample ID: 13-1135 Belt Press Sludge</p>
RESULTS	

pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 22.7 C	— % —					% (dry weight basis)						
7.7	15.84	71.54	6.16	5.04	1.12	1.89	0.17	0.40	5.23	0.09	1.04	0.81
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
						mg/kg (dry weight basis)						
1437.3	5.38	3.88	98.6	484.8	143.7	1.81	56.6	49.6	7.41	1397.3	< .42	< 1

NR-Not Requested One dry ton of this material is equivalent to 1514 gallons of wet material or 6.3 tons of wet material

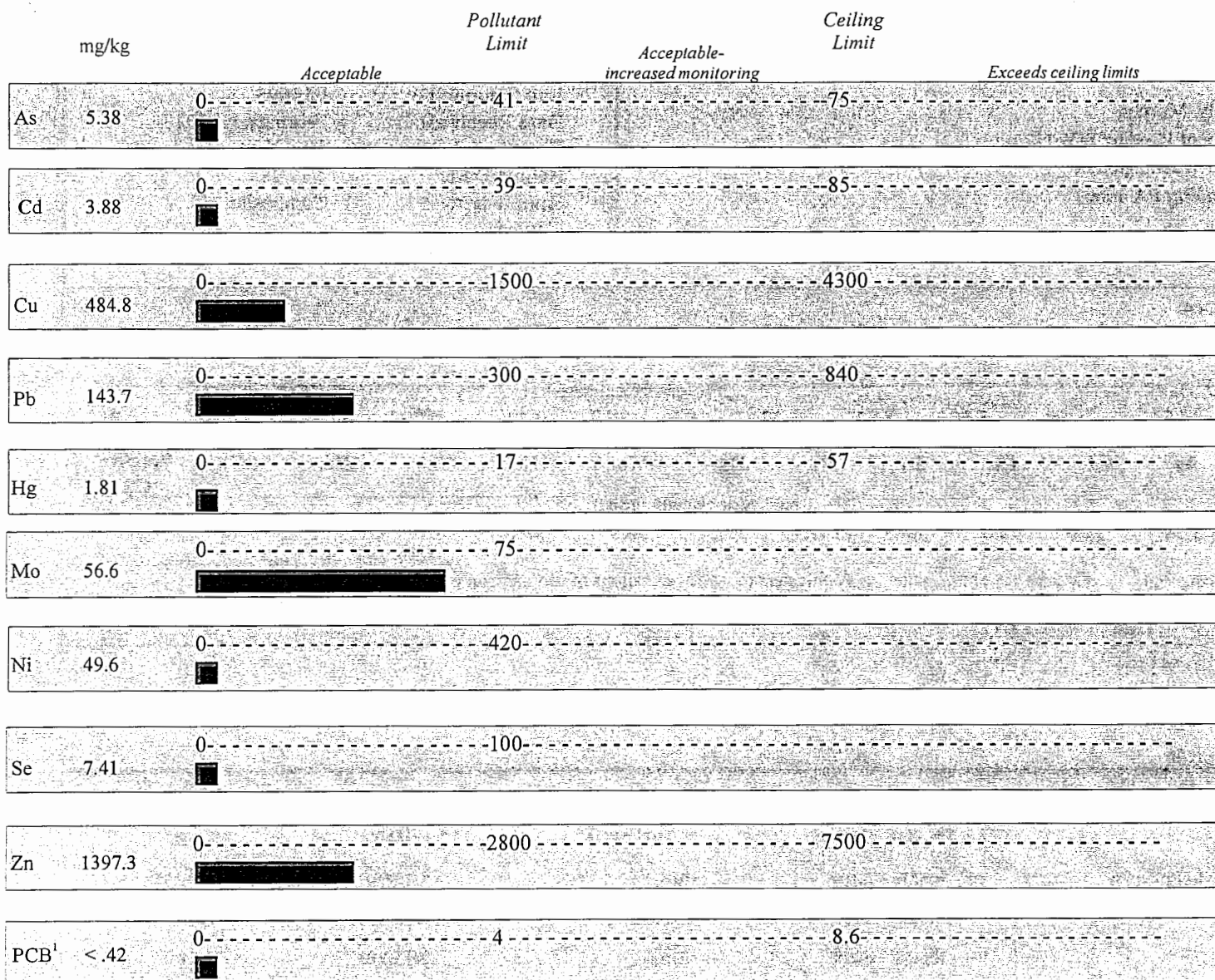
PRIMARY NUTRIENT CONTENT			
	% (dry wt basis)		
al N	6.16	0.81	dry tons of this biosolid will supply 100 lbs of total N.
P ₂ O ₅	4.32	2.65	dry tons of this biosolid will supply 100 lbs of P
K ₂ O	0.20		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS				
Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	2/15/2013	12:51:05
As	3050B + 6010	Brooks	2/15/2013	12:51:05
Se	3050B + 6010	Brooks	2/15/2013	12:51:05
Hg	7473	Rishel	2/25/2013	1:32:07 PM
PCB ¹	8082			
¹ Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)				

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS									
	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.067	2.067	2.067	0.284	2.067	2.067	2.067	2.067	2.067
Analyte conc. in sample/ digest (mg/L except Hg)	0.035	0.025	3.18	0.082 ug	0.37	0.33	0.94	0.05	9.15
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis					Sample Receipt
Nitrate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

**EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and
DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION**





Analysis Report for Use of Biosolids on Cropland

Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601	Lab Sample ID: E15773 Date Received: March 18, 2013 Date Sampled: 3/12/13 Report Date: 4/3/13 Sample type: Composite County: Customer Sample ID: 13-2301
--	---

RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 22.9 C	%					% (dry weight basis)						
8.2	21.12	65.27	5.46	4.61	0.85	2.22	0.10	0.40	8.79	0.11	1.07	0.78
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
						mg/kg (dry weight basis)						
1717.7	5.86	3.74	106.6	502.9	157.2	2.18	72.0	48.1	6.18	1465.5	< .32	< 1

NR-Not Requested One dry ton of this material is equivalent to 1136 gallons of wet material or 4.7 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)		
Total N	5.46	0.92 dry tons of this biosolid will supply 100 lbs of total N.
P ₂ O ₅	5.09	2.25 dry tons of this biosolid will supply 100 lbs of P
K ₂ O	0.12	

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Stecko	3/22/2013	10:00:45
As	3050B + 6010	Stecko	3/22/2013	10:00:45
Se	3050B + 6010	Stecko	3/22/2013	10:00:45
Hg	7473	Brooks	3/21/2013	12:49:41 PM
PCB ¹	8082			

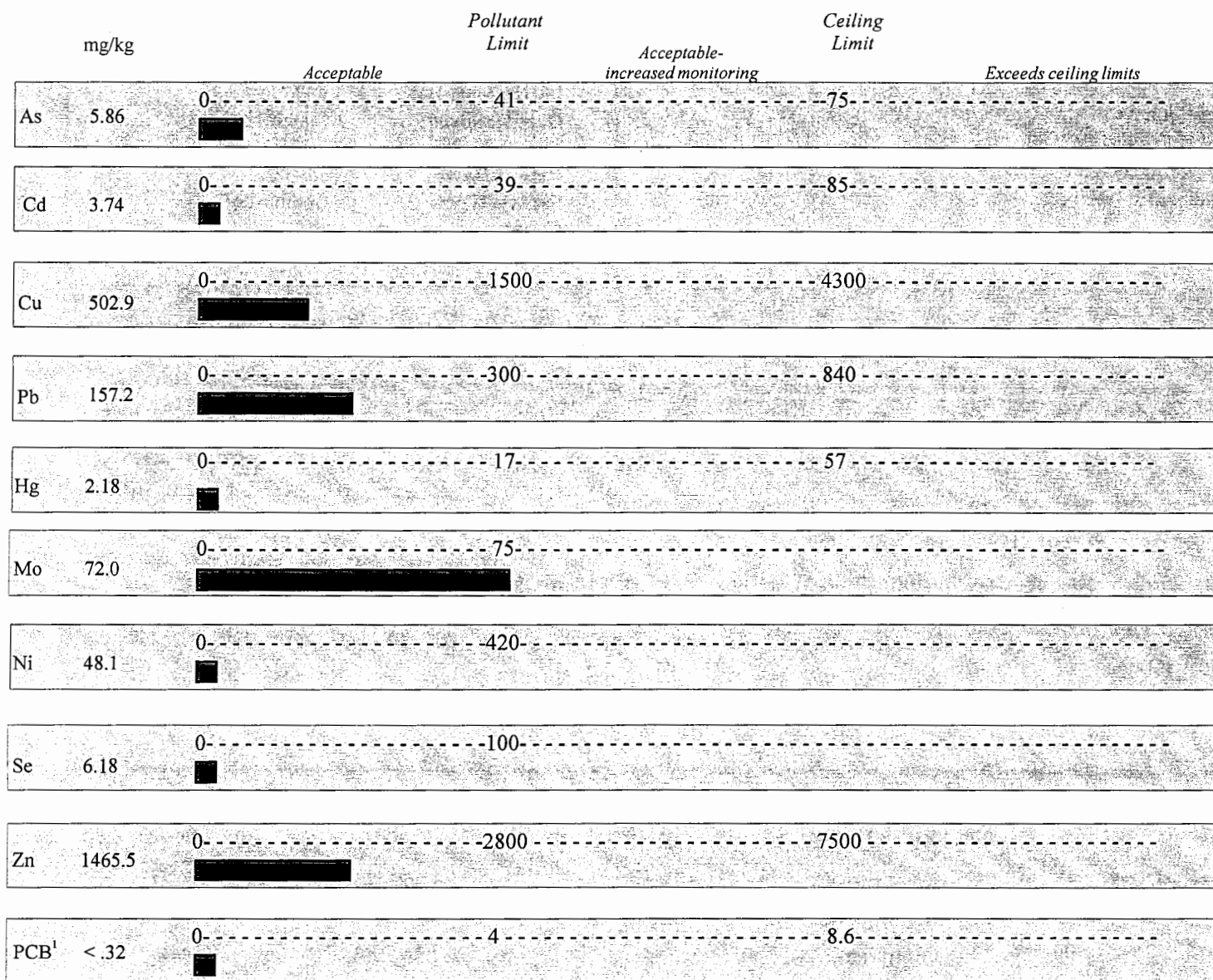
¹Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.502	2.502	2.502	0.351	2.502	2.502	2.502	2.502	2.502
Analyte conc. in sample/digest (mg/L except Hg)	0.062	0.040	5.31	0.161 ug	0.76	0.51	1.66	0.07	15.49
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis					Sample Receipt
rate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

**EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and
DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION**





Analysis Report for Use of Biosolids on Cropland

Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601	Lab Sample ID: E15822 Date Received: April 15, 2013 Date Sampled: 4/9/13 Report Date: 4/29/13 Sample type: Composite County: Customer Sample ID: 13-3183 Belt Press Biosolids
--	--

RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 21.9 C	— % —					% (dry weight basis)						
8.1	20.10	63.79	4.93	4.14	0.79	2.03	0.12	0.38	7.84	0.11	1.03	0.79
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
						mg/kg (dry weight basis)						
1872.0	3.83	3.64	103.8	441.8	128.9	2.29	69.0	48.7	6.23	1471.7	< .33	< 1

NR-Not Requested One dry ton of this material is equivalent to 1193 gallons of wet material or 5.0 tons of wet material

PRIMARY NUTRIENT CONTENT

	% (dry wt basis)	
Total N	4.93	1.01 dry tons of this biosolid will supply 100 lbs of total N.
P ₂ O ₅	4.66	2.46 dry tons of this biosolid will supply 100 lbs of P
K ₂ O	0.15	

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	4/19/2013	11:01:33
As	3050B + 6010	Brooks	4/19/2013	11:01:33
Se	3050B + 6010	Brooks	4/19/2013	11:01:33
Hg	7473	Rishel	4/22/2013	12:42:11 PM
PCB ¹	8082			

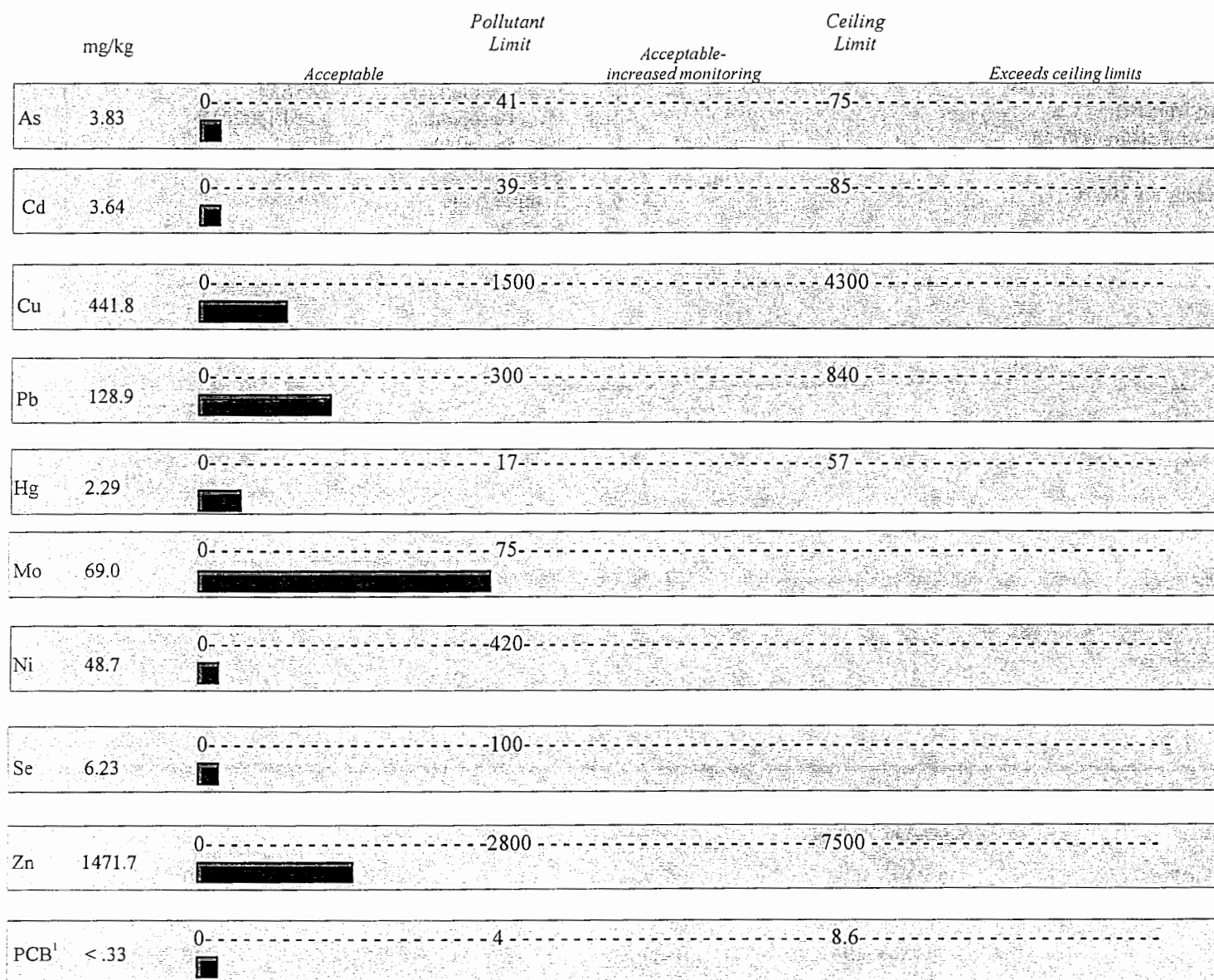
¹Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	3.201	3.201	3.201	0.309	3.201	3.201	3.201	3.201	3.201
Analyte conc. in sample/ digest (mg/L except Hg)	0.049	0.047	5.68	0.142 ug	0.89	0.63	1.66	0.08	18.94
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis					Sample Receipt
ate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

**EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and
DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION**





Analysis Report for Use of Biosolids on Cropland

Amy Morriss
City of Reading WWTP
815 Washington St
Reading PA 19601

RECEIVED
JUN 11 2013
DEPT. OF PUBLIC WORKS

Lab Sample ID: E15870
Date Received: May 20, 2013
Date Sampled: 5/14/13
Report Date: 6/5/13
Sample type: Composite
County: Berks
Customer Sample ID: 13-4332

RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 22.3 C	— % —											
7.9	19.71	59.23	4.91	4.01	0.90	1.73	0.11	1.04	7.50	0.069	1.10	0.80
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
1032.3	4.46	3.07	87.3	412.8	108.6	1.76	67.0	40.9	6.15	1240.3	< .34	< 1

NR-Not Requested One dry ton of this material is equivalent to 1216 gallons of wet material or 5.1 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)

Total N	4.91	1.02	dry tons of this biosolid will supply 100 lbs of total N.
P ₂ O ₅	3.96	2.89	dry tons of this biosolid will supply 100 lbs of P
K ₂ O	0.13		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Stecko	5/24/2013	8:36:59
As	3050B + 6010	Stecko	5/24/2013	8:36:59
Se	3050B + 6010	Stecko	5/24/2013	8:36:59
Hg	7473	Rishel	5/24/2013	12:19:51 PM
PCB ¹	8082			

¹Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

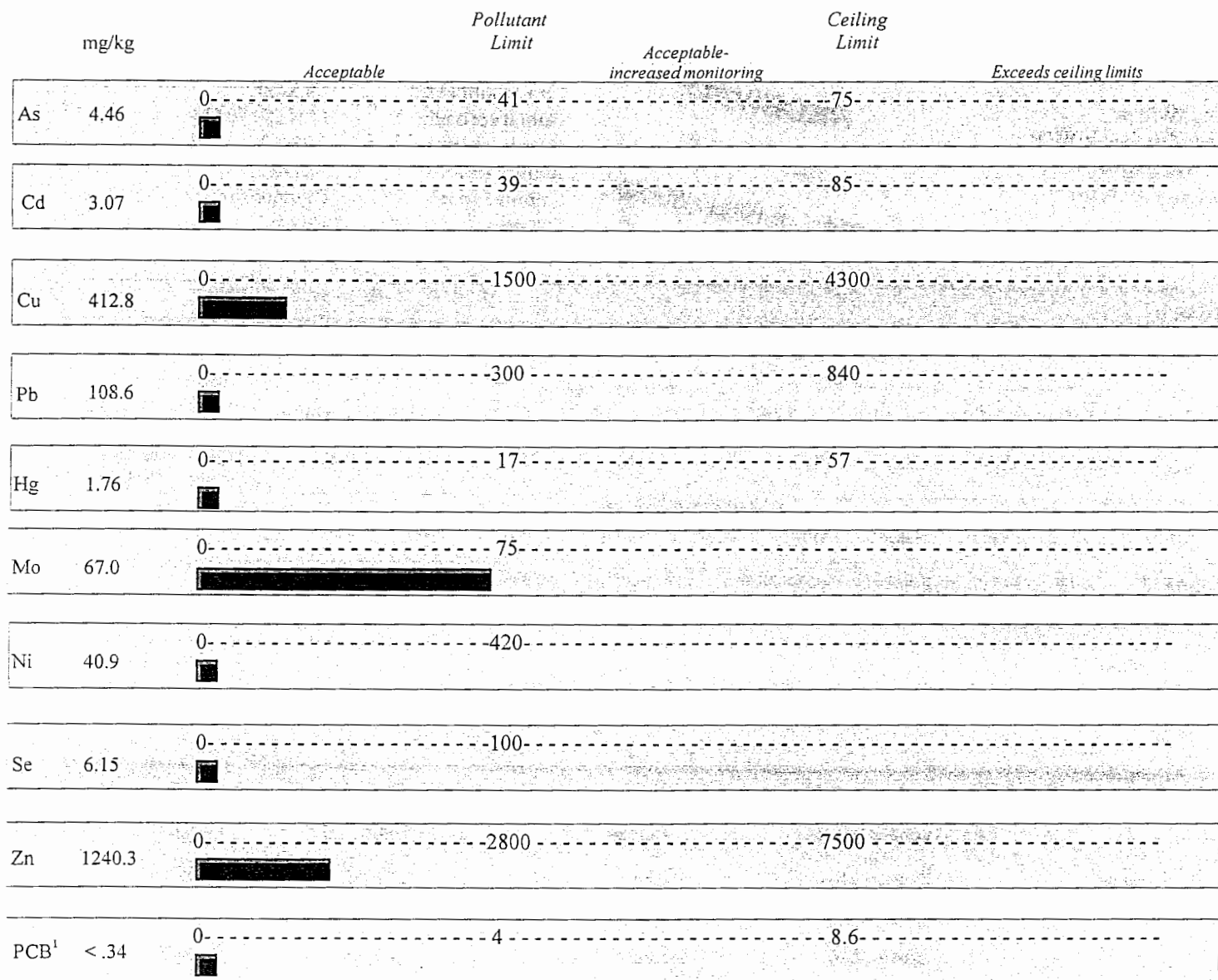
	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.181	2.181	2.181	0.268	2.181	2.181	2.181	2.181	2.181
Analyte conc. in sample/ digest (mg/L except Hg)	0.038	0.026	3.55	0.093 ug	0.58	0.35	0.93	0.05	10.67
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis

Sample Receipt

rate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and
DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION





RECEIVED

Agricultural Analytical Services Laboratory
College of Agricultural Sciences
The Pennsylvania State University
University Park, PA 16802

Phone: 814-863-0841
Fax: 814-863-4540
Web: www.aasl.psu.edu

PA DEP Lab ID # 14-00588

DEPT. OF PUBLIC WORKS

Analysis Report for Use of Biosolids on Cropland

Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601	Lab Sample ID: E15890 Date Received: June 10, 2013 Date Sampled: 6/4/13 Report Date: 6/24/13 Sample type: Composite County: Berks Customer Sample ID: 13-5010 Belt Press Sludge
--	--

RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 22.1 C	— % —											
8.0	19.18	59.82	4.89	3.94	0.95	1.77	0.13	0.89	7.24	0.08	1.06	0.76
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
						mg/kg (dry weight basis)						
1035.7	5.33	3.18	91.7	432.1	110.9	1.14	82.2	37.5	5.23	1381.2	< .35	< 1

NR-Not Requested One dry ton of this material is equivalent to 1250 gallons of wet material or 5.2 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)

Total N	4.89	1.02	dry tons of this biosolid will supply 100 lbs of total N.
P ₂ O ₅	4.05	2.82	dry tons of this biosolid will supply 100 lbs of P
K ₂ O	0.16		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	6/14/2013	9:07:47
As	3050B + 6010	Brooks	6/14/2013	9:07:47
Se	3050B + 6010	Brooks	6/14/2013	9:07:47
Hg	7473	Brooks	6/13/2013	10:17:43 AM
PCB ¹	8082			

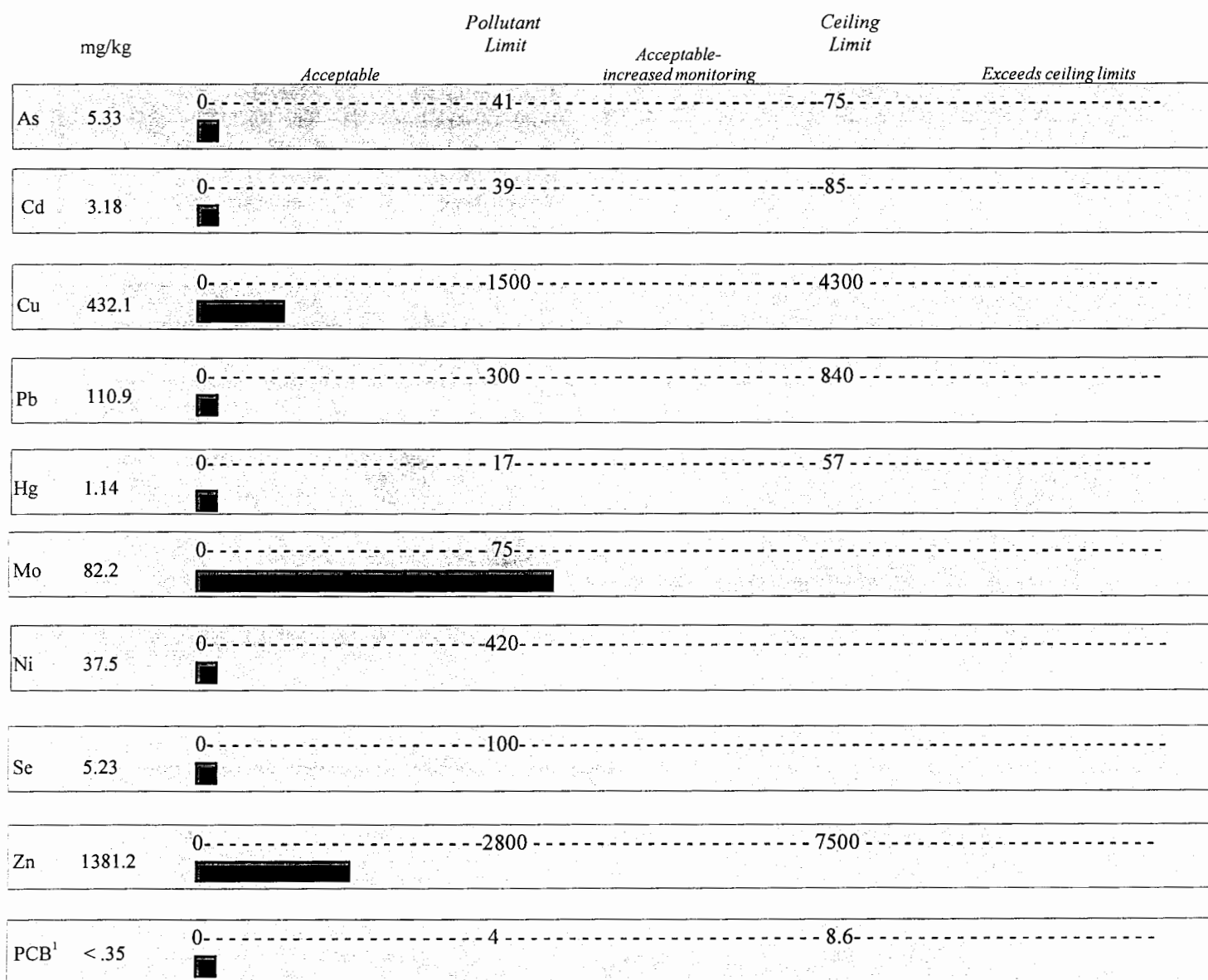
¹Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.049	2.049	2.049	0.288	2.049	2.049	2.049	2.049	2.049
Analyte conc. in sample/ digest (mg/L except Hg)	0.042	0.025	3.40	0.063 ug	0.65	0.29	0.87	0.04	10.86
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis					Sample Receipt
Nitrate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

**EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and
DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION**





Analysis Report for Use of Biosolids on Cropland

Amy Morriss
City of Reading WWTP
815 Washington St
Reading PA 19601

Lab Sample ID: E15935
Date Received: July 10, 2013
Date Sampled: 7/2/13
Report Date: 8/20/13
Sample type: Composite
County: Berks
Customer Sample ID: 13-5962

RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 22.5 C	%					% (dry weight basis)						
8.2	19.61	61.33	4.79	3.88	0.91	1.82	0.18	0.69	5.99	0.08	1.41	1.00
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
						mg/kg (dry weight basis)						
993.8	5.23	3.16	116.1	498.9	108.2	1.69	81.5	43.5	6.4	1541.9	< .34	< 1

NR-Not Requested One dry ton of this material is equivalent to 1223 gallons of wet material or 5.1 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)

Total N	4.79	1.04	dry tons of this biosolid will supply 100 lbs of total N.
P ₂ O ₅	4.16	2.75	dry tons of this biosolid will supply 100 lbs of P
K ₂ O	0.22		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	7/19/2013	9:00:02
As	3050B + 6010	Brooks	7/19/2013	9:00:02
Se	3050B + 6010	Brooks	7/19/2013	9:00:02
Hg	7473	Rishel	8/19/2013	1:02:24 PM
PCB ¹	8082			

¹Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

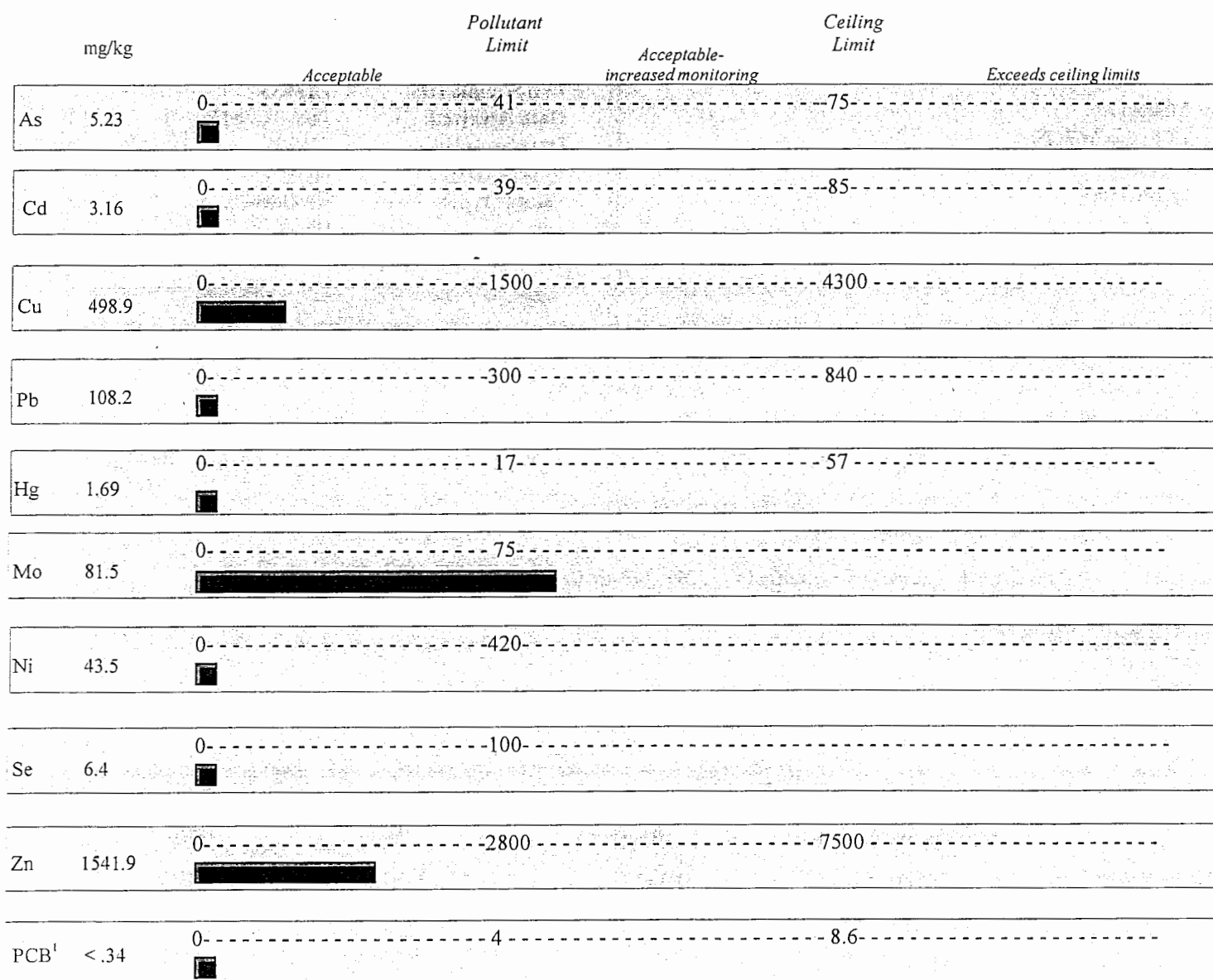
	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.309	2.309	2.309	0.340	2.309	2.309	2.309	2.309	2.309
Analyte conc. in sample/digest (mg/L except Hg)	0.047	0.029	4.52	0.113 ug	0.74	0.39	0.98	0.06	13.97
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis

Sample Receipt

ate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature
----------------	------------------	--------------------------------------	--------------------------	--------	---------------------

**EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and
DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION**



RECEIVED
SEP 13 2013
DEPT. OF PUBLIC WORKS

Lab Sample ID: E15988
Date Received: August 19, 2013
Date Sampled: 8/13/13
Report Date: 9/4/13
Sample type: Composite
County: Berks
Customer Sample ID: 13-7357

pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al	
@ 23.2 C	— % —						% (dry weight basis)						
7.8	21.29	61.67	4.86	4.15	0.71	1.78	0.11	0.42	6.18	0.07	1.48	0.88	
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN	
						mg/kg (dry weight basis)							
563.3	4.72	3.61	182.5	439.4	119.6	1.32	63.5	112.8	5.42	1544.3	< .31	< 1	
NR-Not Requested		One dry ton of this material is equivalent to				1127	gallons of wet material or		4.7 tons of wet material				

% (dry wt basis)

Total N	4.86	1.03	dry tons of this biosolid will supply 100 lbs of total N.
P ₂ O ₅	4.08	2.80	dry tons of this biosolid will supply 100 lbs of P
K ₂ O	0.13		

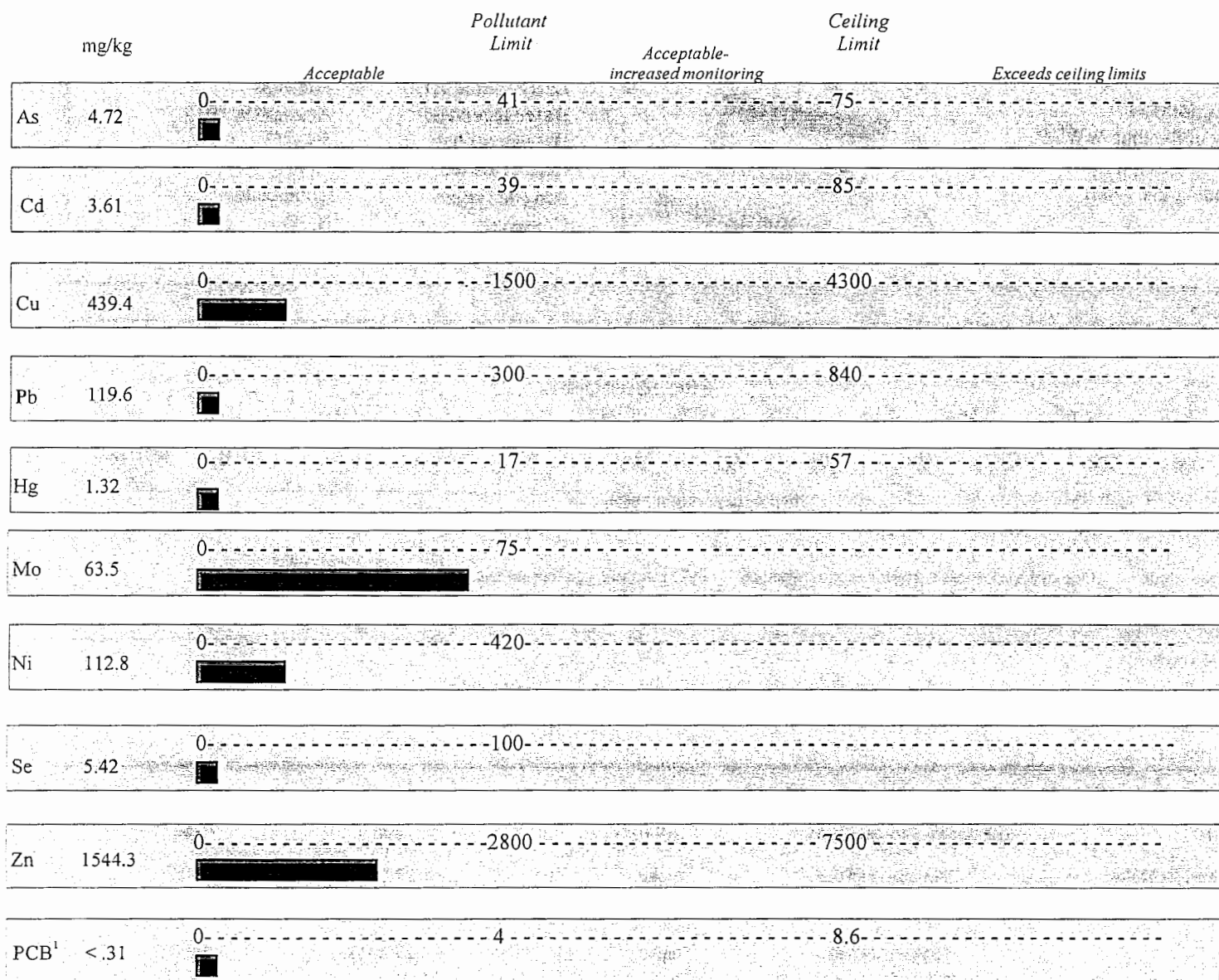
Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Stecko	8/27/2013	8:54:57
As	3050B + 6010	Stecko	8/27/2013	8:54:57
Se	3050B + 6010	Stecko	8/27/2013	8:54:57
Hg	7473	Rishel	8/26/2013	11:36:03 AM
PCB ¹	8082			

¹Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.553	2.553	2.553	0.316	2.553	2.553	2.553	2.553	2.553
Analyte conc. in sample/ digest (mg/L except Hg)	0.051	0.039	4.78	0.089 ug	0.69	1.23	1.30	0.06	16.78
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis					Sample Receipt
Rate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and
DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION





Analysis Report for Use of Biosolids on Cropland

Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601	Lab Sample ID: E16025 Date Received: September 9, 2013 Date Sampled: 9/4/13 Report Date: 9/27/13 Sample type: Composite County: Berks Customer Sample ID: 13-8159
--	--

RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 23.2 C	— % —											
8.2	20.49	59.40	4.95	4.13	0.82	1.86	0.08	0.42	7.16	0.08	1.38	0.85
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
						mg/kg (dry weight basis)						
464.3	3.2	3.93	155.0	496.5	118.9	2.37	63.1	86.4	4.3	1376.3	< .61	< 1

NR-Not Requested One dry ton of this material is equivalent to 1171 gallons of wet material or 4.9 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)		
Total N	4.95	1.01 dry tons of this biosolid will supply 100 lbs of total N.
P ₂ O ₅	4.26	2.69 dry tons of this biosolid will supply 100 lbs of P
K ₂ O	0.10	

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Stecko	9/13/2013	9:21:17
As	3050B + 6010	Stecko	9/13/2013	9:21:17
Se	3050B + 6010	Stecko	9/13/2013	9:21:17
Hg	7473	Brooks	9/26/2013	11:02:37 AM
PCB ¹	8082			

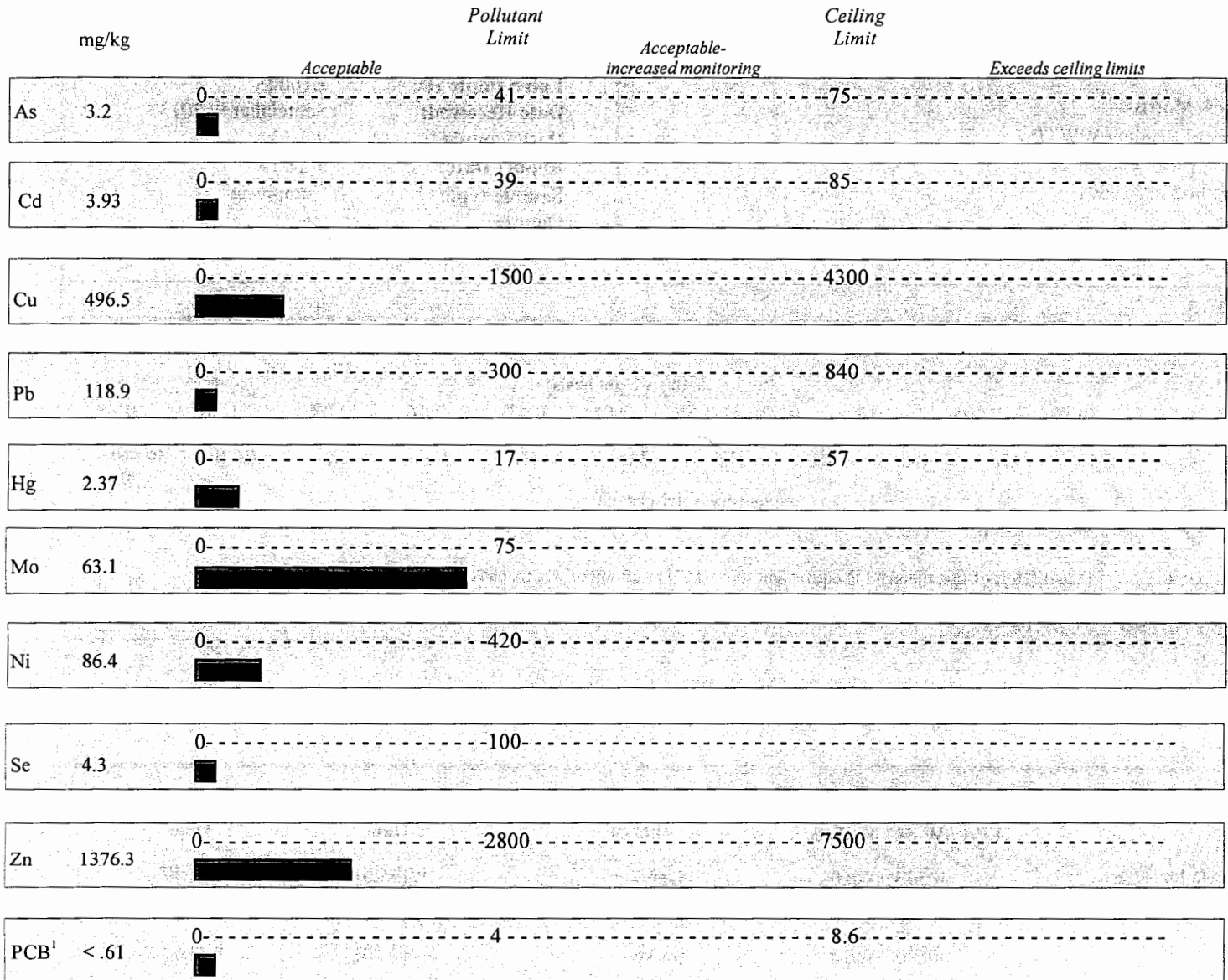
¹Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	1.806	1.806	1.806	0.325	1.806	1.806	1.806	1.806	1.806
Analyte conc. in sample/ digest (mg/L except Hg)	0.024	0.029	3.67	0.158 ug	0.47	0.64	0.88	0.03	10.18
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis					Sample Receipt
rate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

**EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and
DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION**





Analysis Report for Use of Biosolids on Cropland

<p>Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601</p> <p>RECEIVED OCT 28 2013 DEPT. OF PUBLIC WORKS</p>	<p>Lab Sample ID: E16068 Date Received: October 3, 2013 Date Sampled: 10/2/13 Report Date: 10/22/13 Sample type: Composite County: Berks Customer Sample ID: 13-9148 Biosolids</p>
---	--

RESULTS												
pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 22.3 C	— % —					% (dry weight basis)						
8.1	20.59	64.67	5.02	4.16	0.86	1.91	0.09	0.40	6.08	0.09	1.21	1.02
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
mg/kg (dry weight basis)												
418.6	3.41	3.76	127.6	453.4	106.6	1.41	72.2	65.9	4.61	1699.0	< .32	< 1
NR-Not Requested One dry ton of this material is equivalent to 1165 gallons of wet material or 4.9 tons of wet material												

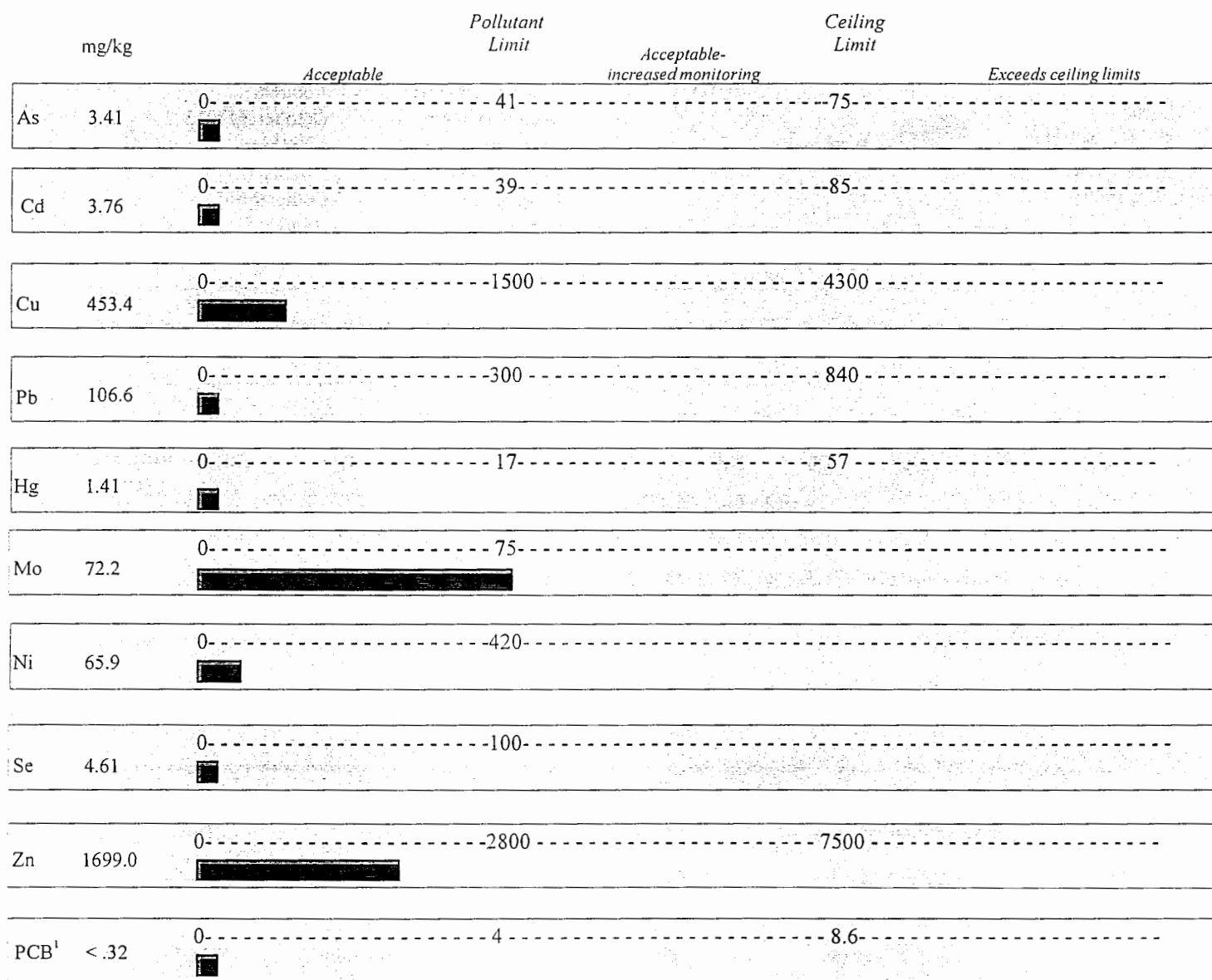
PRIMARY NUTRIENT CONTENT												
% (dry wt basis)												
al N	5.02			1.00	dry tons of this biosolid will supply 100 lbs of total N.							
r ₂ O ₅	4.38			2.61	dry tons of this biosolid will supply 100 lbs of P							
K ₂ O	0.11											

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS				
Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Stecko	10/16/2013	9:21:50
As	3050B + 6010	Stecko	10/16/2013	9:21:50
Se	3050B + 6010	Stecko	10/16/2013	9:21:50
Hg	7473	Brooks	10/21/2013	11:49:05 AM
PCB ¹	8082			
¹ Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)				

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS									
	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.862	2.862	2.862	0.218	2.862	2.862	2.862	2.862	2.862
Analyte conc. in sample/ digest (mg/L except Hg)	0.040	0.044	5.34	0.063 ug	0.85	0.78	1.26	0.05	20.02
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis					Sample Receipt
Nitrate-N (kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

**EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and
DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION**





Analysis Report for Use of Biosolids on Cropland

<p>Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601</p> <p>RECEIVED DEPT. OF PUBLIC WORKS</p>	<p>Lab Sample ID: E16128 Date Received: November 7, 2013 Date Sampled: 11/5/13 Report Date: 11/22/13 Sample type: Composite County: Berks Customer Sample ID: 13-10313</p>
--	---

RESULTS

pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 22 C	— % —					% (dry weight basis)						
7.7	18.69	65.09	5.26	4.31	0.95	1.79	0.12	0.37	10.18	0.12	0.99	0.77
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
mg/kg (dry weight basis)												
308.7	3.29	3.31	100.5	432.7	94.8	1.33	56.3	42.9	4.37	1271.0	< .36	< 1

NR-Not Requested One dry ton of this material is equivalent to 1283 gallons of wet material or 5.4 tons of wet material

PRIMARY NUTRIENT CONTENT

% (dry wt basis)

total N	5.26	0.95	dry tons of this biosolid will supply 100 lbs of total N.
P ₂ O ₅	4.10	2.79	dry tons of this biosolid will supply 100 lbs of P
K ₂ O	0.14		

ANALYSIS INFORMATION FOR EPA 503 POLLUTANTS

Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	11/15/2013	9:27:31
As	3050B + 6010	Brooks	11/15/2013	9:27:31
Se	3050B + 6010	Brooks	11/15/2013	9:27:31
Hg	7473	Brooks	11/15/2013	?
PCB ¹	8082			

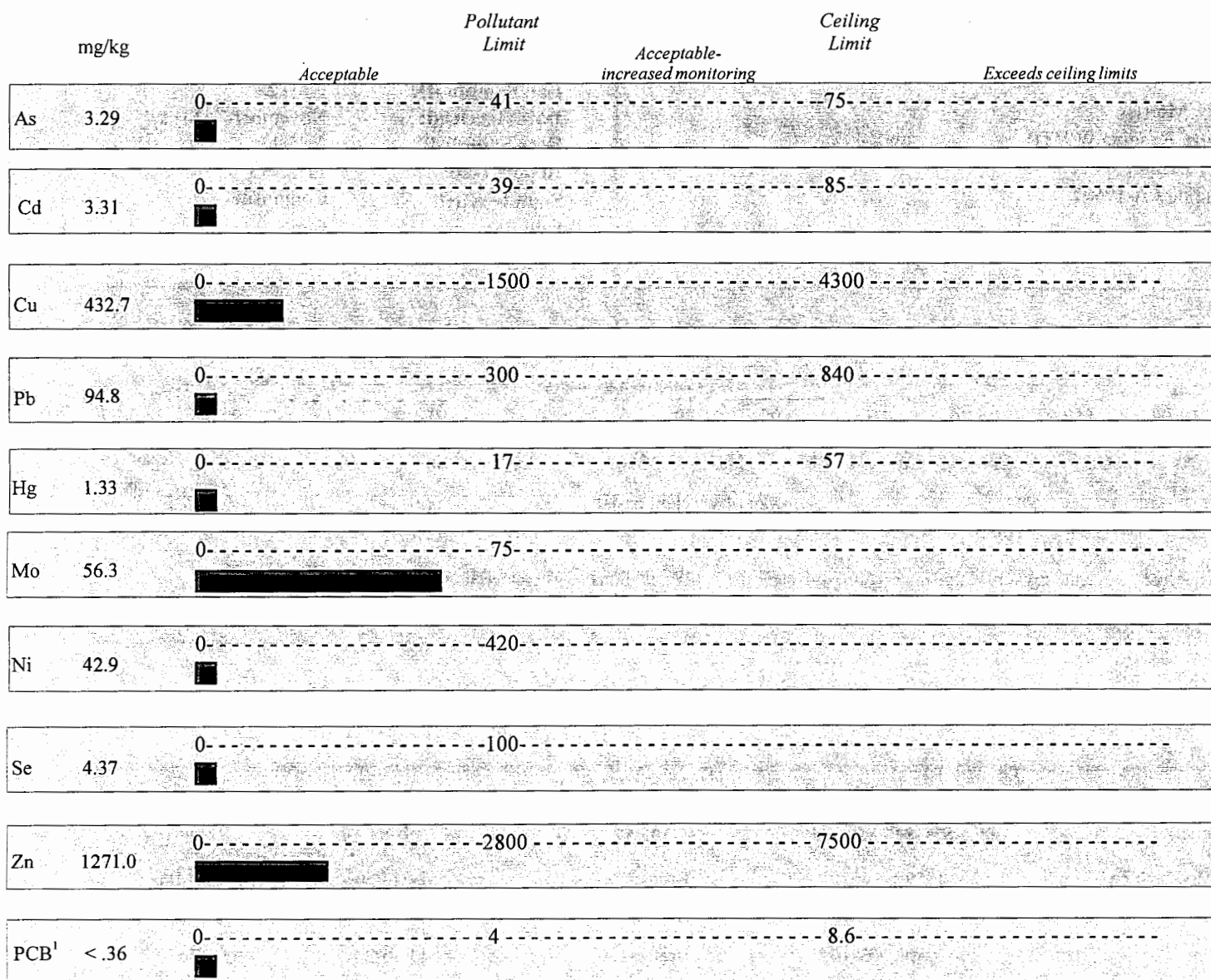
¹Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

RAW LABORATORY BENCH DATA FOR EPA 503 POLLUTANTS

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.567	2.567	2.567	0.227	2.567	2.567	2.567	2.567	2.567
Analyte conc. in sample/digest (mg/L except Hg)	0.032	0.032	4.15	0.056 ug	0.54	0.41	0.91	0.04	12.19
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis					Sample Receipt
ate-N (g/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

**EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and
DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION**



<p>Amy Morriss City of Reading WWTP 815 Washington St Reading PA 19601</p>	<p>Lab Sample ID: E16195 Date Received: December 10, 2013 Date Sampled: 12/3/13 Report Date: 1/2/14 Sample type: Composite County: Berks Customer Sample ID: 13-11217</p>
--	---

pH	Solids	Volatile	Tot-N	Org-N	NH ₄ N	P	K	Mg	Ca	Na	Fe	Al
@ 21.6 C	— % —						% (dry weight basis)					
7.9	19.09	66.60	5.42	4.49	0.93	1.97	0.11	0.41	5.54	0.09	1.06	0.89
Mn	As	Cd	Cr	Cu	Pb	Hg	Mo	Ni	Se	Zn	PCB ¹	Reactive CN
mg/kg (dry weight basis)												
319.3	2.92	3.42	117.8	485.1	111.8	2.81	54.7	45.1	4.39	1360.4	< .35	< 1

NR-Not Requested One dry ton of this material is equivalent to 1256 gallons of wet material or 5.2 tons of wet material

% (dry wt basis)		
Total N	5.42	0.92 dry tons of this biosolid will supply 100 lbs of total N.
P ₂ O ₅	4.51	2.54 dry tons of this biosolid will supply 100 lbs of P
K ₂ O	0.14	

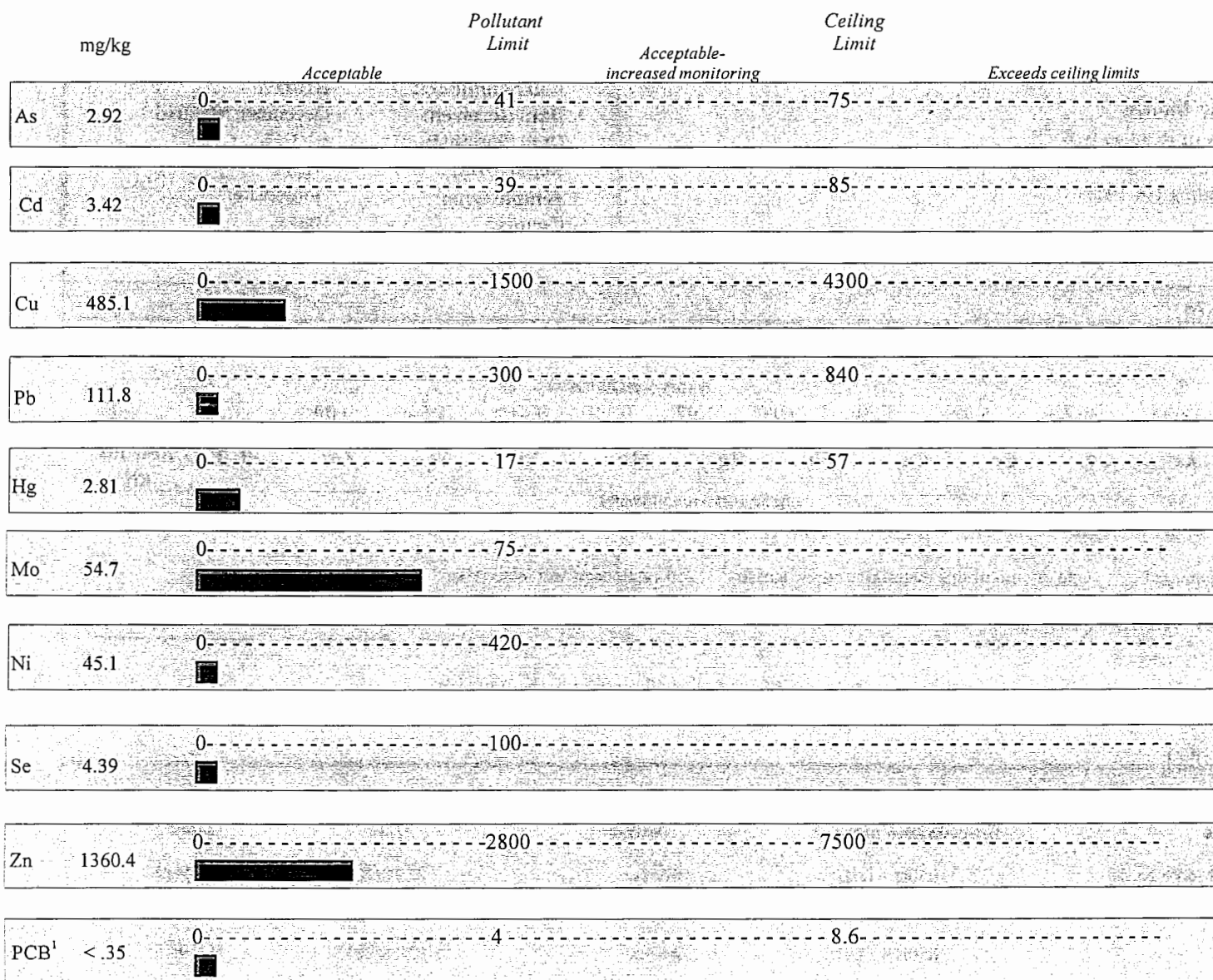
Analyte	EPA SW-846 Method	Analyst	Date	Time
Cd,Cu,Mo,Pb,Ni,Zn	3050B + 6010	Brooks	12/18/2013	13:19:15
As	3050B + 6010	Brooks	12/18/2013	13:19:15
Se	3050B + 6010	Brooks	12/18/2013	13:19:15
Hg	7473	Brooks	12/16/2013	1:59:06 PM
PCB ¹	8082			

¹Subcontracted to Fairway Laboratories, Inc. (ID 7-00062)

	As	Cd	Cu	Hg	Mo	Ni	Pb	Se	Zn
Wet Wt. aliquot (g)	2.036	2.036	2.036	0.389	2.036	2.036	2.036	2.036	2.036
Analyte conc. in sample/ digest (mg/L except Hg)	0.023	0.027	3.77	0.209 ug	0.42	0.35	0.87	0.03	10.57
Method limit (mg/L except Hg)	0.015	0.005	0.015	0.0010 ug	0.015	0.010	0.025	0.025	0.050

Optional Analyses: Results (except soluble salts) on dry weight basis					Sample Receipt
trate-N (mg/kg)	Total Carbon (%)	CCE Calcium Carbonate Equivalent (%)	Soluble Salts (mmhos/cm)	Other:	Ambient Temperature

EPA REGULATIONS FOR LAND APPLICATION OF BIOSOLIDS (40 CFR Part 503) and
DEP GUIDELINES FOR USE OF BIOSOLIDS FOR AGRICULTURAL UTILIZATION



Additional Testing for bis(2-Ethylhexyl)phthalate on Plant Influent, Effluent and Biosolids

2013 Influent Testing for TKN, Total Phosphorus, o-phosphate

Additional testing for Total Dissolved Solids on Plant Influent and Effluent

DEP letter and NPDES amendment for mercury limit

Bis(2-Ethylhexyl)phthalate

	Influent	Effluent	Biosolids
	$\mu\text{g/L}$		ug/Kg
1/3/2013	<5	6	18.7
1/15/2013	<5	<5	
1/29/2013	<5	8	
2/6/2013	<5	<5	
2/19/2013	<5	<5	
3/5/2013	<5	<5	
3/12/2013			<22.9
3/19/2013	6.8	<5	
4/2/2013	15	5	
4/16/2013	23	11	
4/24/2013	<5	5.5	
5/7/2013	<5	<5	
5/14/2013			7.36
5/21/2013	<5	<5	
6/4/2013	<5	<5	
6/18/2013	5.2	5.4	
7/2/2013	<5	5	<12.2
7/16/2013	6.9	<5	
7/23/2013	<5	<5	
8/6/2013	30	<5	
8/20/2013	29	<5	
9/3/2013	13	<5	
9/4/2013			9.7
9/17/2013	12	<5	
10/2/2013			<25
10/21/2013	5	<5	
8/13			4.5

DATE	Influent		
	TKN mg/L	Total P mg/L	Ortho P mg/L
1/8/2013	43.9	6.4	
1/9/2013			5.07
4/23/2013	54.5	6.9	
4/24/2013			3.80
7/22/2013	19.6	6.4	
7/23/2013			4.86
10/22/2013	47.8	7.7	
10/23/2013			5.90

Total Dissolved Solids

Date	Influent	Effluent
	mg/L	mg/L
Sunday, January 06, 2013	610	628
Sunday, January 13, 2013	608	582
Sunday, January 20, 2013	498	600
Saturday, January 26, 2013	792	710
Monday, February 04, 2013	720	582
Monday, February 11, 2013	822	642
Thursday, February 14, 2013	770	728
Monday, February 25, 2013	722	678
Monday, March 04, 2013	758	688
Monday, March 11, 2013	772	694
Friday, March 15, 2013	730	646
Friday, March 22, 2013	622	570
Saturday, March 30, 2013	610	610
Friday, April 05, 2013	714	728
Friday, April 12, 2013	698	656
Sunday, April 21, 2013	732	638
Saturday, April 27, 2013	682	698
Sunday, May 05, 2013	826	922
Saturday, May 11, 2013	664	640
Saturday, May 18, 2013	720	742
Sunday, May 26, 2013	640	704
Thursday, May 30, 2013	758	736
Saturday, June 08, 2013	794	632
Thursday, June 13, 2013	578	618
Monday, June 24, 2013	742	732
Friday, June 28, 2013	696	600
Friday, July 05, 2013	642	672
Saturday, July 13, 2013	628	572
Saturday, August 03, 2013	674	682
Friday, August 09, 2013	776	644
Friday, August 16, 2013	778	708
Saturday, August 24, 2013	692	736
Sunday, September 01, 2013	866	940
Sunday, September 08, 2013	1050	892
Friday, September 13, 2013	940	802
Saturday, September 21, 2013	654	782
Saturday, September 28, 2013	728	678
Friday, October 04, 2013	820	832
Saturday, October 12, 2013	758	658
Monday, October 21, 2013	728	716
Sunday, October 27, 2013	694	722
Saturday, November 02, 2013	696	716
Thursday, November 07, 2013	634	652
Friday, November 15, 2013	686	694
Monday, November 25, 2013	762	744
Sunday, December 01, 2013	638	626
Saturday, December 07, 2013	672	526
Sunday, December 15, 2013	1128	748
Sunday, December 22, 2013	792	812
Sunday, December 29, 2013	650	566